



**HEWLETT
PACKARD**

Component-Level Information

HP 85685A RF Preselector

SERIAL NUMBERS

This manual applies directly to HP 85685A RF Preselectors with serial numbers prefixed 2942A and below.

**COPYRIGHT © 1989 HEWLETT-PACKARD COMPANY
1212 VALLEY HOUSE DRIVE, ROHNERT PARK, CALIFORNIA 94928-4999, USA**

Manual Part Number: 85685-90069

Printed: October 1989

Certification

Hewlett-Packard Company certifies that this product met its published specifications at the time of shipment from the factory. Hewlett-Packard further certifies that its calibration measurements are traceable to the United States National Institute of Standards and Technology, to the extent allowed by the Institute's calibration facility, and to the calibration facilities of other International Standards Organization members.

Warranty

This Hewlett-Packard instrument product is warranted against defects in material and workmanship for a period of one year from date of shipment. During the warranty period, Hewlett-Packard Company will, at its option, either repair or replace products which prove to be defective.

For warranty service or repair, this product must be returned to a service facility designated by HP. Buyer shall prepay shipping charges to HP and HP shall pay shipping charges to return the product to Buyer. However, Buyer shall pay all shipping charges, duties, and taxes for products returned to HP from another country.

HP warrants that its software and firmware designated by HP for use with an instrument will execute its programming instructions when properly installed on that instrument. HP does not warrant that the operation of the instrument, or software, or firmware will be uninterrupted or error-free.

LIMITATION OF WARRANTY

The foregoing warranty shall not apply to defects resulting from improper or inadequate maintenance by Buyer, Buyer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper site preparation or maintenance.

NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. HP SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

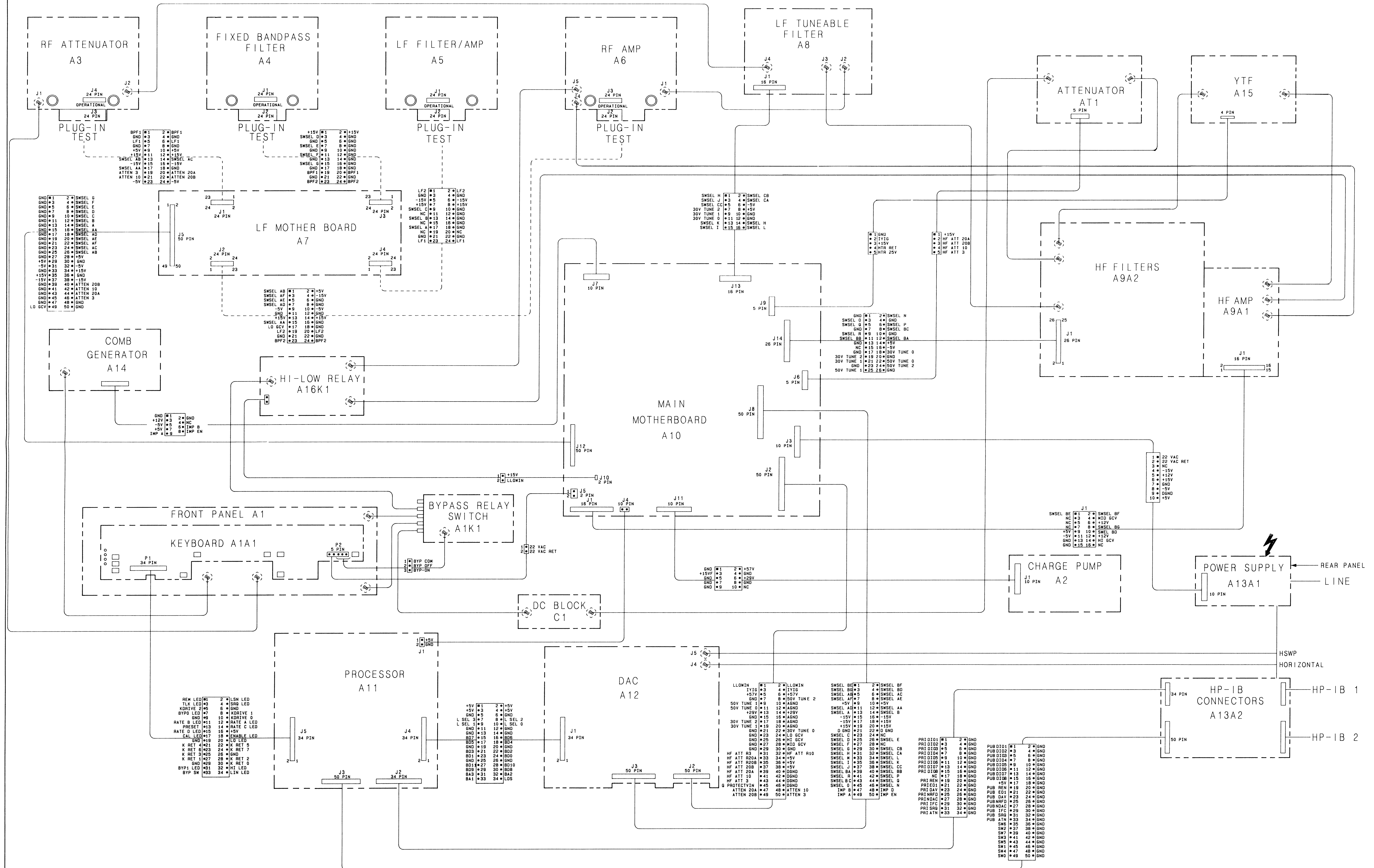
EXCLUSIVE REMEDIES

THE REMEDIES PROVIDED HEREIN ARE BUYER'S SOLE AND EXCLUSIVE REMEDIES. HP SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY.

Assistance

Product maintenance agreements and other customer assistance agreements are available for Hewlett-Packard products.

For any assistance, contact your nearest Hewlett-Packard Sales and Service Office.





Component-Level Information Packet for 85685-60001 High-Frequency Filters Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90062

**Printed October 1989
Printed in USA**

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



HP Part Number 85685-60001
High Frequency Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| C1 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5% 100VDC CER 0+- | 04222 | SA201A102JAAH |
| C2 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5% 100VDC CER 0+- | 04222 | SA201A102JAAH |
| C3 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5% 100VDC CER 0+- | 04222 | SA201A102JAAH |
| C4 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5% 100VDC CER 0+- | 04222 | SA301A392JAAH |
| C5 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5% 100VDC CER 0+- | 04222 | SA301A392JAAH |
| C6 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5% 100VDC CER 0+- | 04222 | SA301A392JAAH |
| C7 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C8 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C9 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C10 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C11 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C12 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C13 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C14 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C15 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C16 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C17 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C18 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C19 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C20 | 0160-4789 | 0 | 1 | CAPACITOR-FXD 15PF +-5% 100VDC CER 0+-30 | 04222 | SA102A150JAAH |
| C21 | 0160-4789 | 0 | 1 | CAPACITOR-FXD 15PF +-5% 100VDC CER 0+-30 | 04222 | SA102A150JAAH |
| C22 | 0160-4789 | 0 | 1 | CAPACITOR-FXD 15PF +-5% 100VDC CER 0+-30 | 04222 | SA102A150JAAH |
| C23 | 0160-4789 | 0 | 1 | CAPACITOR-FXD 15PF +-5% 100VDC CER 0+-30 | 04222 | SA102A150JAAH |
| C24 | 0160-4786 | 7 | 1 | CAPACITOR-FXD 27PF +-5% 100VDC CER 0+-30 | 04222 | SA102A270JAAH |
| C25 | 0160-4786 | 7 | 1 | CAPACITOR-FXD 27PF +-5% 100VDC CER 0+-30 | 04222 | SA102A270JAAH |
| C101 | 0160-4215 | 7 | 1 | CAPACITOR-FXD 33PF +-10% 100VDC CER 0+-2 | 8M498 | 101R15N330KP4 |
| C102 | 0160-3785 | 4 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 95275 | VJ1210X104MF |
| C104 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C105 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C106 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C107 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C108 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C109 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C112 | 0160-4518 | 3 | 1 | CAPACITOR-FXD 3.9PF +-.5PF 200VDC CER 0+ | 28480 | 0160-4518 |
| C113 | 0160-4498 | 8 | 1 | CAPACITOR-FXD 5.6PF +-.5PF 200VDC CER 0+ | 28480 | 0160-4498 |
| C114 | 0160-4518 | 3 | 1 | CAPACITOR-FXD 3.9PF +-.5PF 200VDC CER 0+ | 28480 | 0160-4518 |
| C115 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C116 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C117 | 0160-4500 | 3 | 1 | CAPACITOR-FXD .047UF +-10% 50VDC CER | 95275 | VJ0805Y473KFA |
| C118 | 0160-4500 | 3 | 1 | CAPACITOR-FXD .047UF +-10% 50VDC CER | 95275 | VJ0805Y473KFA |
| C119 | 0160-4500 | 3 | 1 | CAPACITOR-FXD .047UF +-10% 50VDC CER | 95275 | VJ0805Y473KFA |
| C120 | 0160-3785 | 4 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 95275 | VJ1210X104MF |
| C121 | 0160-3785 | 4 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 95275 | VJ1210X104MF |
| C122 | 0160-3785 | 4 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 95275 | VJ1210X104MF |
| C123 | 0160-3785 | 4 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 95275 | VJ1210X104MF |
| C124 | 0160-3785 | 4 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 95275 | VJ1210X104MF |
| C125 | 0160-3785 | 4 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 95275 | VJ1210X104MF |
| C126 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |

**Indicates factory-selected value*

HP Part Number 85685-60001
High Frequency Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|-----------------|
| C127 | 0160-4518 | 3 | 1 | CAPACITOR-FXD 3.9PF +- .5PF 200VDC CER 0+ | 28480 | 0160-4518 |
| C128 | 0160-4498 | 8 | 1 | CAPACITOR-FXD 5.6PF +- .5PF 200VDC CER 0+ | 28480 | 0160-4498 |
| C129 | 0160-4518 | 3 | 1 | CAPACITOR-FXD 3.9PF +- .5PF 200VDC CER 0+ | 28480 | 0160-4518 |
| C130 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C131 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C132 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C133 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C134 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C135 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C136 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C137 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C138 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C139 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C140 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C141 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C142 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C143 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C144 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C145 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C146 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C147 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C148 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C149 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C150 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C151 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C152 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C153 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C154 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| CR1 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR2 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR3 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR4 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10% C3/C25-MIN=5 | 28480 | 0122-0167 |
| CR5 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10% C3/C25-MIN=5 | 28480 | 0122-0167 |
| CR6 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10% C3/C25-MIN=5 | 28480 | 0122-0167 |
| CR7 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR8 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR9 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR10 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR11 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR12 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR13 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR14 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR15 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR16 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR17 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR101 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR102 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |

HP Part Number 85685-60001
High Frequency Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| CR103 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR104 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR105 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR106 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR107 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR108 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR109 | 0122-0084 | 0 | 1 | DIODE-VVC 5.25PF 5% C4/C45-MIN=2.4 | 16179 | 0122-0084 |
| CR110 | 0122-0084 | 0 | 1 | DIODE-VVC 5.25PF 5% C4/C45-MIN=2.4 | 16179 | 0122-0084 |
| CR111 | 0122-0084 | 0 | 1 | DIODE-VVC 5.25PF 5% C4/C45-MIN=2.4 | 16179 | 0122-0084 |
| CR112 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR113 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR114 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR115 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR116 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR117 | 0122-0085 | 1 | 1 | DIODE-VVC 2.2PF 7% C3/C25-MIN=4.5 | S0545 | 1S2208(B) |
| CR118 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR119 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR120 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR121 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR122 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR123 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR124 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR125 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR126 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR127 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR128 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR129 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR130 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR131 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR132 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR133 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| CR134 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR135 | 1901-0639 | 4 | 1 | DIODE-PIN | 28480 | 1901-0639 |
| J1 | 1252-0651 | 3 | 1 | CONN-RECT D-SUBMIN 25-CKT 25-CONT | 33095 | 56-722-023 |
| L1 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH +-5% .166D-INX. | 24226 | 15M150J |
| L2 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH +-5% .166D-INX. | 24226 | 15M150J |
| L3 | 9100-2891 | 4 | 1 | INDUCTOR RF-CH-MLD 50NH +-10% .105D-INX. | 24226 | 10M050K-1 |
| L4 | 9100-2891 | 4 | 1 | INDUCTOR RF-CH-MLD 50NH +-10% .105D-INX. | 24226 | 10M050K-1 |
| L5 | 9140-0308 | 8 | 1 | INDUCTOR RF-CH-MLD 120NH +-5% .166D-INX. | 24226 | 15M120J |
| L6 | 9140-0308 | 8 | 1 | INDUCTOR RF-CH-MLD 120NH +-5% .166D-INX. | 24226 | 15M120J |
| L7 | 9140-0308 | 8 | 1 | INDUCTOR RF-CH-MLD 120NH +-5% .166D-INX. | 24226 | 15M120J |
| L8 | 9140-0308 | 8 | 1 | INDUCTOR RF-CH-MLD 120NH +-5% .166D-INX. | 24226 | 15M120J |
| L9 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH +-5% .166D-INX. | 24226 | 15M150J |
| L10 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH +-5% .166D-INX. | 24226 | 15M150J |
| L11 | 9140-0800 | 5 | 1 | INDUCTOR 16NH +-5% .23W-INX.38LG-IN Q=60 | 02113 | BUGS/132-1.5T |
| L12 | 9140-0799 | 1 | 1 | INDUCTOR 29.5NH +-5% .23W-INX.38LG-IN Q= | 02113 | BUGS/132-3.5T |
| L13 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L14 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |

**Indicates factory-selected value*

HP Part Number 85685-60001
High Frequency Filters Assembly

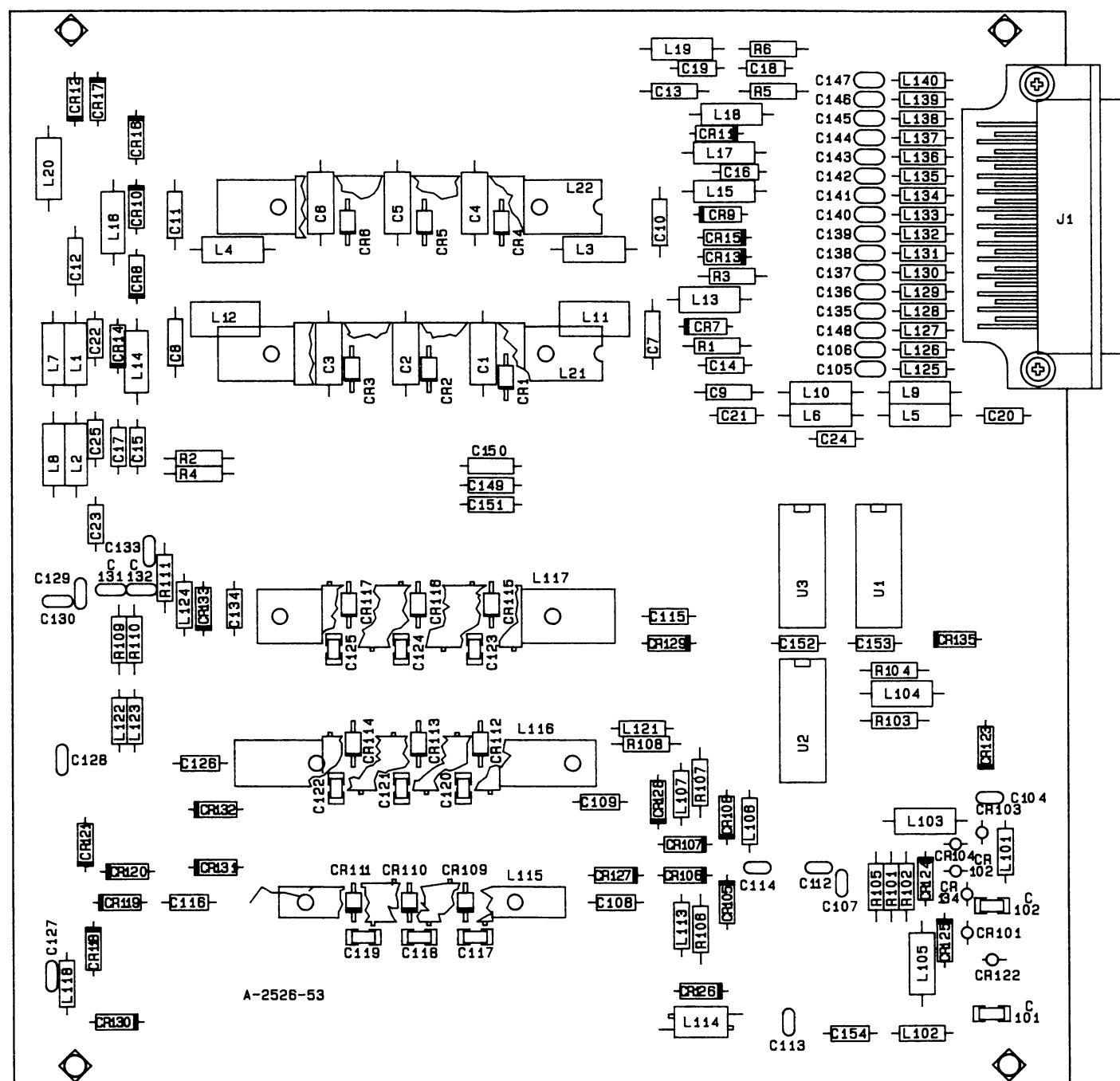
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| L15 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L16 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L17 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L18 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L19 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L20 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L21 | 85685-60026 | 7 | 1 | | 28480 | 85685-60026 |
| L22 | 85685-60025 | 6 | 1 | RES AY-55-100MHZ | 28480 | 85685-60025 |
| L101 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L102 | 9135-0073 | 3 | 1 | INDUCTOR RF-CH-MLD 51NH +-6.596% 2.6D-MM | 28480 | 9135-0073 |
| L103 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L104 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L105 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L106 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L107 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L113 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L114 | 9100-1788 | 6 | 1 | CORE-FERRITE CHOKE-WIDEBAND IMP:680 | 02114 | VK200 20/4B |
| L115 | 85685-60029 | 0 | 1 | RES AY-350-500 | 28480 | 85685-60029 |
| L116 | 85685-60028 | 9 | 1 | RES AY-230-350 | 28480 | 85685-60028 |
| L117 | 85685-60027 | 8 | 1 | RES AY-155-230 | 28480 | 85685-60027 |
| L118 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L121 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L122 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L123 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L124 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L125 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L126 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L127 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L128 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L129 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L130 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L131 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L132 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L133 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L134 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L135 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L136 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L137 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L138 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L139 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L140 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| MP2 | 85685-20018 | 3 | 1 | SPACER-RES-SHORT | 28480 | 85685-20018 |
| MP3 | 0520-0130 | 1 | 1 | SCREW-MACH 2-56 .375-IN-LG PAN-HD-POZI | 28480 | 0520-0130 |
| MP4 | 0590-1445 | 0 | 1 | THREADED INSERT-NUT M3 X 0.5 1.5-MM-LG | 28480 | 0590-1445 |
| MP5 | 0515-0897 | 6 | 1 | SCREW-MACH M3 X 0.5 8MM-LG PAN-HD | 28480 | 0515-0897 |
| MP6 | 3050-0891 | 7 | 1 | WASHER-FL MTLC 3.0 MM 3.3-MM-ID | 28480 | 3050-0891 |
| MP7 | 2190-0584 | 0 | 1 | WASHER-LK HLCL 3.0 MM 3.1-MM-ID | 28480 | 2190-0584 |

HP Part Number 85685-60001
High Frequency Filters Assembly

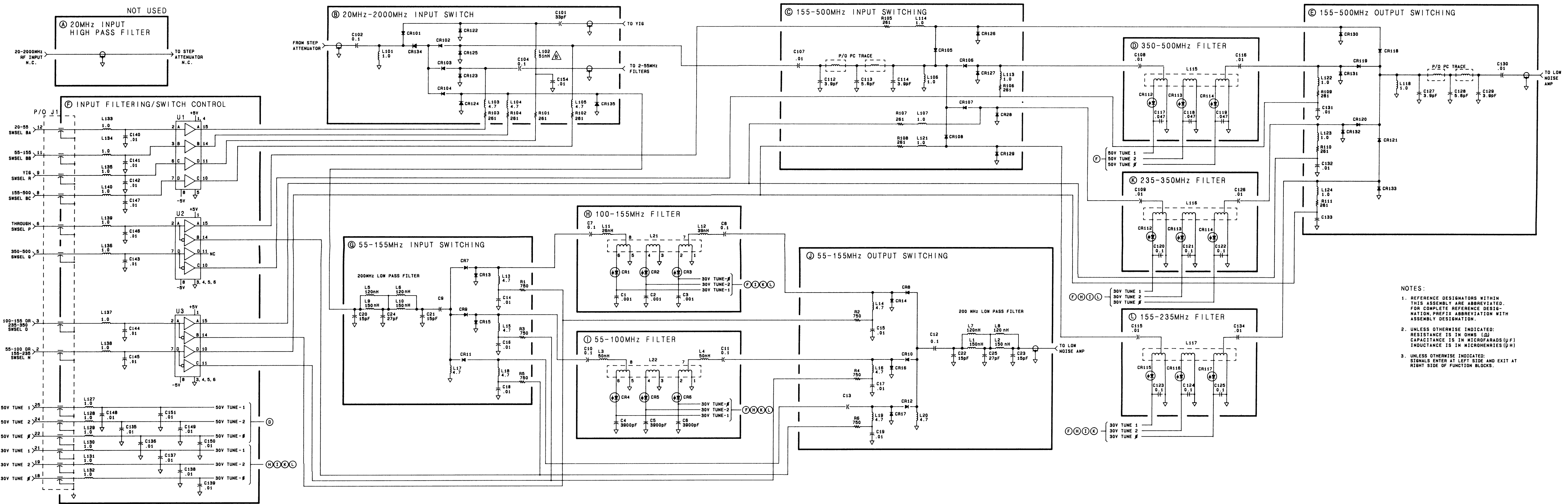
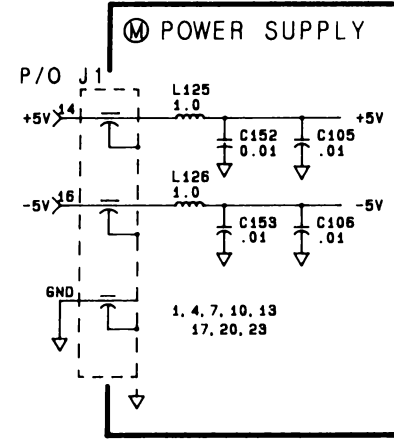
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|------------------------------------|----------|-----------------|
| R1 | 0757-0420 | 3 | 1 | RESISTOR 750 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R2 | 0757-0420 | 3 | 1 | RESISTOR 750 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R3 | 0757-0420 | 3 | 1 | RESISTOR 750 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R4 | 0757-0420 | 3 | 1 | RESISTOR 750 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R5 | 0757-0420 | 3 | 1 | RESISTOR 750 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R6 | 0757-0420 | 3 | 1 | RESISTOR 750 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R101 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R102 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R103 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R104 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R105 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R106 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R107 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R108 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R109 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R110 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R111 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| U1 | 1820-3755 | 9 | 1 | IC-INTERFACE DRVR BCD-TO-BIN | 34335 | AM26LS30DC |
| U2 | 1820-3755 | 9 | 1 | IC-INTERFACE DRVR BCD-TO-BIN | 34335 | AM26LS30DC |
| U3 | 1820-3755 | 9 | 1 | IC-INTERFACE DRVR BCD-TO-BIN | 34335 | AM26LS30DC |

**Indicates factory-selected value*


HF FILTER
85685-60001



| J1 | | | |
|-----|------------|----------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | GND | | |
| 2 | SWSEL M | A12J3-48 | F |
| 3 | SWSEL O | A12J3-48 | F |
| 4 | GND | | |
| 5 | SWSEL B | A12J3-44 | F |
| 6 | SWSEL P | A12J3-42 | F |
| 7 | GND | | |
| 8 | SWSEL BC | A12J3-43 | F |
| 9 | SWSEL H | A12J3-41 | F |
| 10 | GND | | |
| 11 | SWSEL BB | A12J3-40 | F |
| 12 | SWSEL BA | A12J3-38 | F |
| 13 | GND | | |
| 14 | +5V | | M |
| 15 | NC | | |
| 16 | GND | | |
| 17 | -5V | | M |
| 18 | 30V TUNE 0 | A12J2-22 | F |
| 19 | 30V TUNE 2 | A12J2-17 | F |
| 20 | GND | | |
| 21 | 30V TUNE 1 | A12J2-19 | F |
| 22 | 30V TUNE 0 | A12J2-11 | F |
| 23 | GND | | |
| 24 | 30V TUNE 2 | A12J2-9 | F |
| 25 | 30V TUNE 1 | A12J2-8 | F |



- NOTES:
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
 2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω), CAPACITANCE IS IN MICROFARADS (μ F), INDUCTANCE IS IN MICRONHENRIES (μ H).
 3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.



Component-Level Information Packet

for 85685-60002

High-Frequency Amplifier Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90061

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



**HEWLETT
PACKARD**

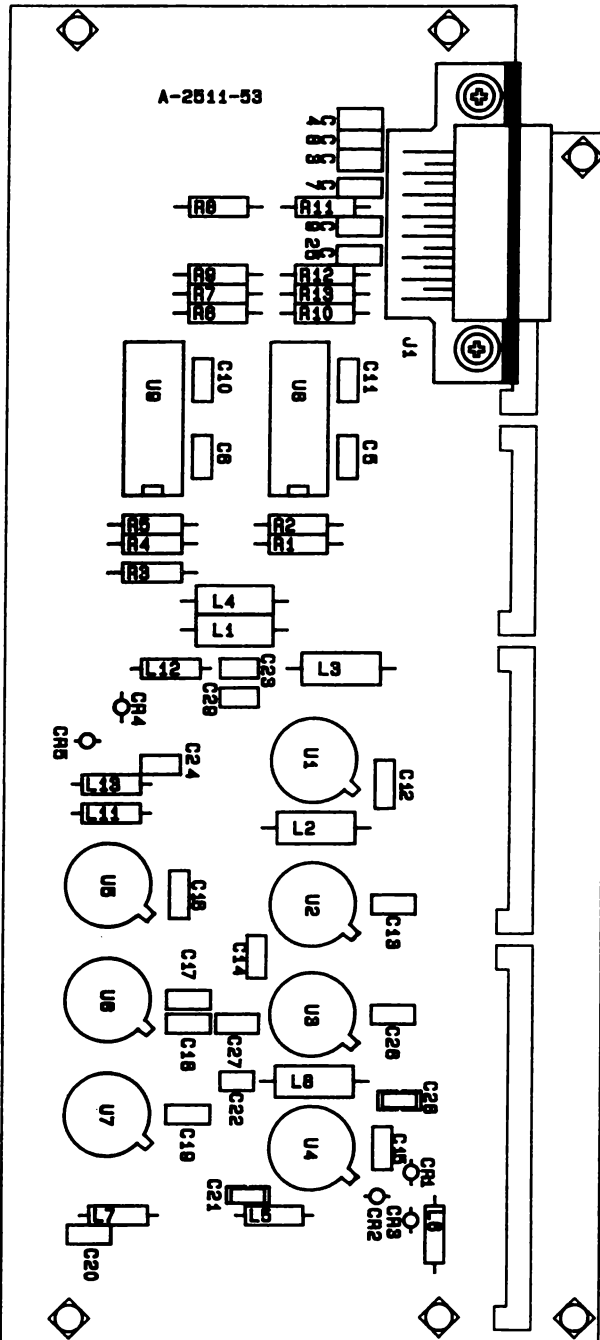
HP Part Number 85685-60002
High Frequency Amplifier Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| C3 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C4 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C5 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C6 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C7 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C8 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C9 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C10 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C11 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C12 | 0160-0571 | 0 | 1 | CAPACITOR-FXD 470PF +-20% 100VDC CER | 04222 | SR201C471MAAH |
| C13 | 0160-0571 | 0 | 1 | CAPACITOR-FXD 470PF +-20% 100VDC CER | 04222 | SR201C471MAAH |
| C14 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C15 | 0160-0571 | 0 | 1 | CAPACITOR-FXD 470PF +-20% 100VDC CER | 04222 | SR201C471MAAH |
| C16 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C17 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C18 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C19 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C20 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C21 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C22 | 0160-0573 | 2 | 1 | CAPACITOR-FXD 4700PF +-20% 100VDC CER | 04222 | SR201C472MAAH |
| C23 | 0160-0573 | 2 | 1 | CAPACITOR-FXD 4700PF +-20% 100VDC CER | 04222 | SR201C472MAAH |
| C24 | 0160-0573 | 2 | 1 | CAPACITOR-FXD 4700PF +-20% 100VDC CER | 04222 | SR201C472MAAH |
| C25 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C26 | 0160-3879 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 100VDC CER | 04222 | SR201C103MAAH |
| C27 | 0160-4365 | 8 | 1 | CAPACITOR-FXD 470PF +-5% 100VDC CER | 04222 | SR201A471JAAH |
| C28 | 0160-5975 | 8 | 1 | CAPACITOR-FXD 10PF +-5% 50VDC CER 0+-30 | 28480 | 0160-5975 |
| C29 | 0160-4365 | 8 | 1 | CAPACITOR-FXD 470PF +-5% 100VDC CER | 04222 | SR201A471JAAH |
| CR1 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR2 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR3 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR4 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| CR5 | 1900-0049 | 8 | 1 | DIODE-PIN | 28480 | 1900-0049 |
| J1 | 1252-0650 | 2 | 1 | CONN-RECT D-SUBMIN 15-CKT 15-CONT | 33095 | 56-712-014 |
| L1 | 9100-0539 | 3 | 1 | INDUCTOR RF-CH-MLD 10UH +-5% .156D-INX.3 | 24226 | 15M102J |
| L2 | 9100-0539 | 3 | 1 | INDUCTOR RF-CH-MLD 10UH +-5% .156D-INX.3 | 24226 | 15M102J |
| L3 | 9100-0539 | 3 | 1 | INDUCTOR RF-CH-MLD 10UH +-5% .156D-INX.3 | 24226 | 15M102J |
| L4 | 9100-0539 | 3 | 1 | INDUCTOR RF-CH-MLD 10UH +-5% .156D-INX.3 | 24226 | 15M102J |
| L5 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L6 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L7 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L8 | 9100-3562 | 8 | 1 | INDUCTOR RF-CH-MLD 4.7UH +-5% .166D-INX. | 24226 | 15M471J |
| L11 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L12 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L13 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| MP2 | 0590-1445 | 0 | 1 | THREADED INSERT-NUT M3 X 0.5 1.5-MM-LG | 28480 | 0590-1445 |
| MP3 | 0515-0912 | 6 | 1 | SCREW-MACH M3 X 0.5 8MM-LG PAN-HD | 28480 | 3050-0891 |
| MP4 | 3050-0891 | 7 | 1 | WASHER-FL MTLC 3.0 MM 3.3-MM-ID | 28480 | 2190-0584 |

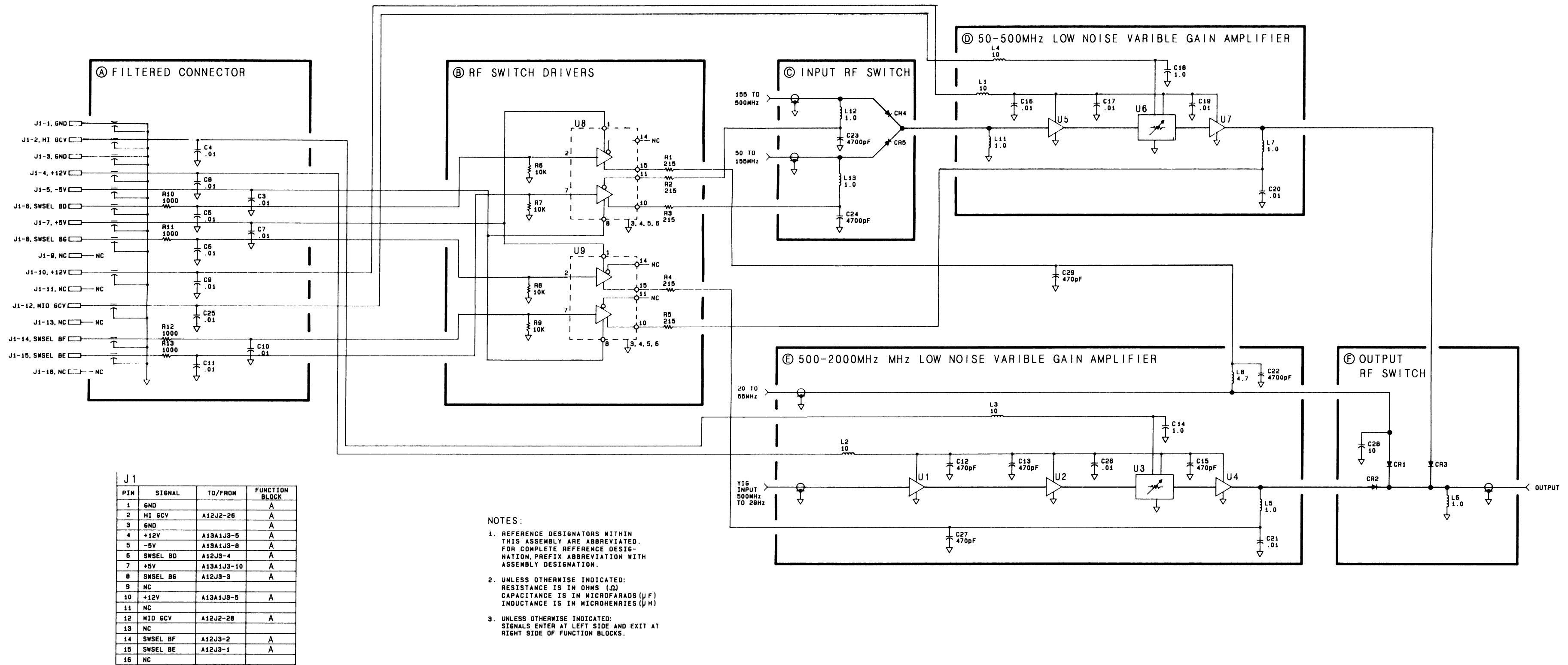
**Indicates factory-selected value*


HP Part Number 85685-60002
High Frequency Amplifier Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--------------------------------------|----------|---------------------|
| MP5 | 2190-0584 | 0 | 1 | WASHER-LK HLCL 3.0 MM 3.1-MM-ID | 28480 | 0515-0912 |
| R1 | 0698-3441 | 8 | 1 | RESISTOR 215 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R2 | 0698-3441 | 8 | 1 | RESISTOR 215 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R3 | 0698-3441 | 8 | 1 | RESISTOR 215 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R4 | 0698-3441 | 8 | 1 | RESISTOR 215 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R5 | 0698-3441 | 8 | 1 | RESISTOR 215 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R6 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R7 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R8 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R9 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R10 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R11 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R12 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R13 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| U1 | 1813-0439 | 5 | 1 | IC RF/IF AMPL WB 4-TO-8 PKG | 24539 | UTO-2012 |
| U2 | 1813-0444 | 2 | 1 | IC RF/IF AMPL LOW-NOISE 4-TO-8 PKG | 24539 | UTO-2024 |
| U3 | 0955-0223 | 4 | 1 | U-WAVE ATTENUATOR-VARIABLE 2 GHZ MAX | 24539 | UTF-030 |
| U4 | 1813-0516 | 9 | 1 | IC RF/IF AMPL HS 8-TO-8 PKG | 24539 | UTO-2027 (SELECTED) |
| U5 | 1813-0446 | 4 | 1 | IC RF/IF AMPL HIGH-GAIN 4-TO-8 PKG | 24539 | UTO-517 |
| U6 | 0955-0223 | 4 | 1 | U-WAVE ATTENUATOR-VARIABLE 2 GHZ MAX | 24539 | UTF-030 |
| U7 | 1813-0447 | 5 | 1 | IC RF/IF AMPL PWR 4-TO-8 PKG | 24539 | UTO-533 |
| U8 | 1820-3755 | 9 | 1 | IC-INTERFACE DRVR BCD-TO-BIN | 34335 | AM26LS30DC |
| U9 | 1820-3755 | 9 | 1 | IC-INTERFACE DRVR BCD-TO-BIN | 34335 | AM26LS30DC |



HF AMPLIFIER, COMPONENT LOCATIONS: 85685-60002





Component-Level Information Packet

for 85685-60003

Low-Frequency Tuned Filters Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90060

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



**HEWLETT
PACKARD**

HP Part Number 85685-60003
Low Frequency Tuned Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|-----------------|
| C1 | 0160-4800 | 6 | 1 | CAPACITOR-FXD 120PF +-5%100VDC CER 0+-3 | 04222 | SA102A121JAAH |
| C2 | 0160-4800 | 6 | 1 | CAPACITOR-FXD 120PF +-5%100VDC CER 0+-3 | 04222 | SA102A121JAAH |
| C3 | 0160-4800 | 6 | 1 | CAPACITOR-FXD 120PF +-5%100VDC CER 0+-3 | 04222 | SA102A121JAAH |
| C4 | 0160-4800 | 6 | 1 | CAPACITOR-FXD 120PF +-5%100VDC CER 0+-3 | 04222 | SA102A121JAAH |
| C5 | 0160-4811 | 9 | 1 | CAPACITOR-FXD 270PF +-5%100VDC CER 0+-3 | 04222 | SA101A271JAAH |
| C6 | 0160-4811 | 9 | 1 | CAPACITOR-FXD 270PF +-5%100VDC CER 0+-3 | 04222 | SA101A271JAAH |
| C7 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C8 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C9 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C10 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C11 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C12 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C13 | 0160-4786 | 7 | 1 | CAPACITOR-FXD 27PF +-5%100VDC CER 0+-30 | 04222 | SA102A270JAAH |
| C14 | 0160-4786 | 7 | 1 | CAPACITOR-FXD 27PF +-5%100VDC CER 0+-30 | 04222 | SA102A270JAAH |
| C15 | 0160-4786 | 7 | 1 | CAPACITOR-FXD 27PF +-5%100VDC CER 0+-30 | 04222 | SA102A270JAAH |
| C16 | 0160-4807 | 3 | 1 | CAPACITOR-FXD 33PF +-5%100VDC CER 0+-30 | 04222 | SA102A330JAAH |
| C17 | 0160-4803 | 9 | 1 | CAPACITOR-FXD 68PF +-5%100VDC CER 0+-30 | 04222 | SA102A680JAAH |
| C18 | 0160-4803 | 9 | 1 | CAPACITOR-FXD 68PF +-5%100VDC CER 0+-30 | 04222 | SA102A680JAAH |
| C19 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C20 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C21 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C22 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C23 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C24 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C25 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C26 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C27 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C28 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C30 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C31 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C32 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C33 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C34 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C35 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C36 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C37 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C38 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C39 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C40 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C41 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C42 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C43 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C44 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C45 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C46 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C47 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C48 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C49 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |

*Indicates factory-selected value

HP Part Number 85685-60003
Low Frequency Tuned Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|--------------------|
| C50 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C51 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C52 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C54 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C55 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C56 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C57 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C58 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C59 | 0180-0228 | 6 | 1 | CAPACITOR-FXD 22UF+-10%15VDC TA | 56289 | 150D226X9015B2-DYS |
| C60 | 0180-0228 | 6 | 1 | CAPACITOR-FXD 22UF+-10%15VDC TA | 56289 | 150D226X9015B2-DYS |
| C61 | 0160-4797 | 0 | 1 | CAPACITOR-FXD 3.3PF +- .25PF100VDC CER 0 | 04222 | MA101A3R3CAA |
| C62 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C63 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C64 | 0160-4833 | 5 | 1 | CAPACITOR-FXD .022UF +-10%100VDC CER | 04222 | SA201C223KAAH |
| C65 | 0160-4833 | 5 | 1 | CAPACITOR-FXD .022UF +-10%100VDC CER | 04222 | SA201C223KAAH |
| C66 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20%50VDC CER | 04222 | SA305C104MAAH |
| C67 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C68 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| CR1 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR2 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR3 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR4 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR5 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR6 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR7 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR8 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR9 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR11 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR12 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR13 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR14 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR15 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR16 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR17 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | |
| CR18 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR19 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR20 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR21 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR22 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR23 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR24 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR25 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR26 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR27 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR28 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR29 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR30 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |

HP Part Number 85685-60003
Low Frequency Tuned Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--------------------------------------|----------|-----------------|
| CR31 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR32 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR33 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR35 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR36 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR37 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR38 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR39 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR40 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR41 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR42 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR43 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR44 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR45 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR46 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR47 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR48 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR49 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR50 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR51 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR52 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR54 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR55 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR56 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR57 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR58 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR59 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR60 | 0122-0163 | 6 | 1 | DIODE-VVC 500PF 12% BVR=28VQ=150-MIN | 04713 | MVAM125 |
| CR61 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR62 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR63 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR64 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR65 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR66 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR67 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR68 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR69 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR70 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR71 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR72 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR73 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR74 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR75 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR76 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR77 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR79 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR80 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR81 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |

**Indicates factory-selected value*

HP Part Number 85685-60003
Low Frequency Tuned Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|-----------------|
| CR82 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR83 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR84 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR85 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR86 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR87 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR88 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR89 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR90 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR91 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR92 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR93 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR94 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR95 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR96 | 0122-0167 | 0 | 1 | DIODE-VVC 5.05PF 10%C3/C25-MIN=5 | | BB409 |
| CR97 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR98 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR99 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR100 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| J1 | 1251-7168 | 9 | 1 | CONN-POST TYPE.100-PIN-SPCG 16-CONT | 76381 | 3408-2203 |
| J2 | 1250-0257 | 1 | 1 | CONNECTOR-RF SMB M PC50-OHM | 98291 | 51-051-0169-226 |
| J3 | 1250-0257 | 1 | 1 | CONNECTOR-RF SMB M PC50-OHM | 98291 | 51-051-0169-226 |
| J4 | 1250-0257 | 1 | 1 | CONNECTOR-RF SMB M PC50-OHM | 98291 | 51-051-0169-226 |
| L1 | 9140-0395 | 3 | 1 | INDUCTOR RF-CH-MLD 560NH+-5% .166D-INX. | 24226 | 15M560J |
| L2 | 9140-0395 | 3 | 1 | INDUCTOR RF-CH-MLD 560NH+-5% .166D-INX. | 24226 | 15M560J |
| L3 | 9140-0395 | 3 | 1 | INDUCTOR RF-CH-MLD 560NH+-5% .166D-INX. | 24226 | 15M560J |
| L4 | 9140-0395 | 3 | 1 | INDUCTOR RF-CH-MLD 560NH+-5% .166D-INX. | 24226 | 15M560J |
| L5 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L6 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L7 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L8 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L9 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L10 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L11 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L12 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L13 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L14 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L15 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L16 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L17 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L18 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L19 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L20 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L21 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L22 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L23 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L24 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |

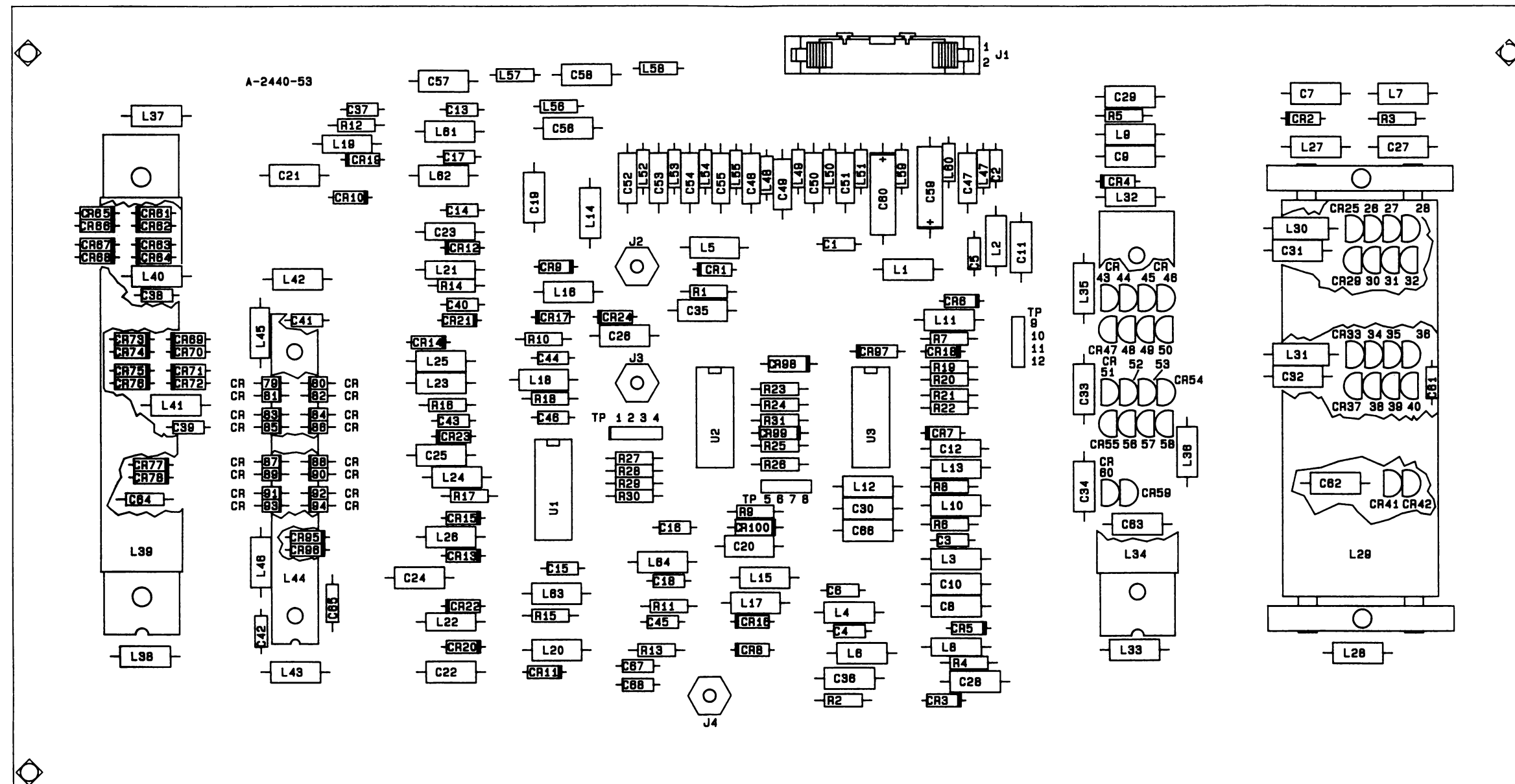
HP Part Number 85685-60003
Low Frequency Tuned Filters Assembly

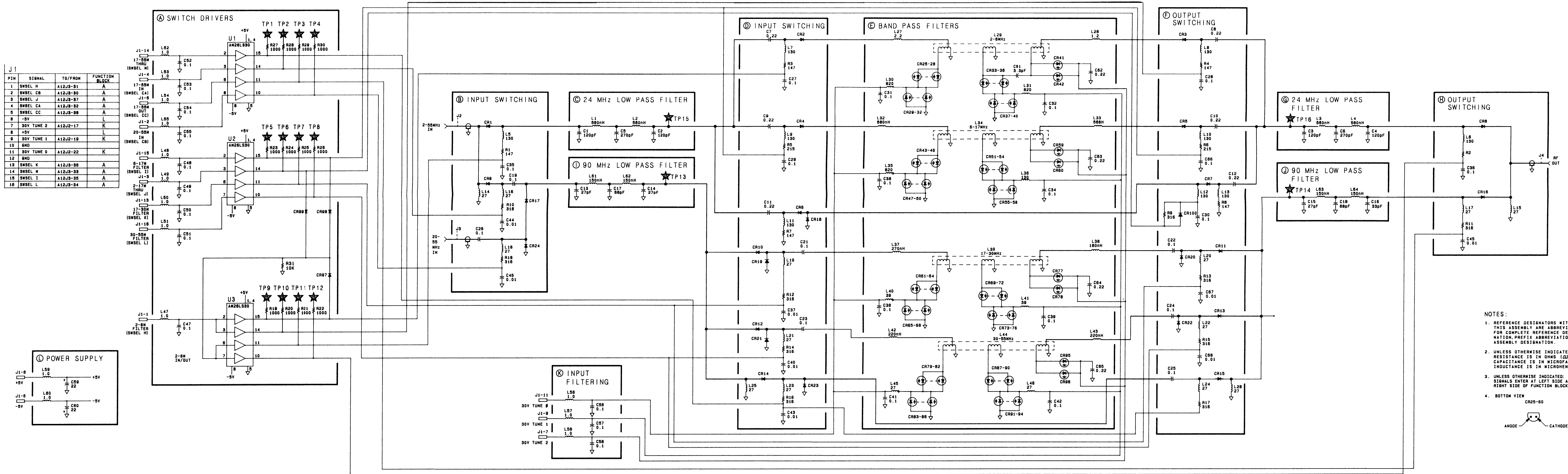
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|-----------------|
| L25 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L26 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L27 | 9140-0399 | 7 | 1 | INDUCTOR RF-CH-MLD 2.2UH\j | | |
| L28 | 9140-0264 | 5 | 1 | INDUCTOR RF-CH-MLD 1.2UH+-5% .166D-INX. | 24226 | 15M121J |
| L29 | 9140-1039 | 4 | 1 | ER DIVISION | 28480 | 9140-1039 |
| L30 | 9100-1652 | 3 | 1 | INDUCTOR RF-CH-MLD 820UH+-5% .2D-INX.45 | 99800 | 2500-24 |
| L31 | 9100-1652 | 3 | 1 | INDUCTOR RF-CH-MLD 820UH+-5% .2D-INX.45 | 99800 | 2500-24 |
| L32 | 9140-0394 | 2 | 1 | INDUCTOR RF-CH-MLD 680NH+-5% .166D-INX. | 24226 | 15M680J |
| L33 | 9140-0395 | 3 | 1 | INDUCTOR RF-CH-MLD 560NH+-5% .166D-INX. | 24226 | 15M560J |
| L34 | 85685-60022 | 3 | 1 | | 28480 | 85685-60022 |
| L35 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L36 | 9100-1638 | 5 | 1 | INDUCTOR RF-CH-MLD 130UH+-5% .166D-INX. | 99800 | 1537-82 |
| L37 | 9140-0450 | 1 | 1 | INDUCTOR RF-CH-MLD 270NH+-5% .166D-INX. | 24226 | 15M270J |
| L38 | 9140-0351 | 1 | 1 | INDUCTOR RF-CH-MLD 180NH+-5% .166D-INX. | 24226 | 15M180J |
| L39 | 85685-60023 | 4 | 1 | | 28480 | 85685-60023 |
| L40 | 9100-1627 | 2 | 1 | INDUCTOR RF-CH-MLD 39UH+-5% .166D-INX.3 | 99800 | 1537-56 |
| L41 | 9100-1627 | 2 | 1 | INDUCTOR RF-CH-MLD 39UH+-5% .166D-INX.3 | 99800 | 1537-56 |
| L42 | 9100-3911 | 1 | 1 | INDUCTOR RF-CH-MLD 220NH+-5% .166D-INX. | 24226 | 15M220J |
| L43 | 9100-3911 | 1 | 1 | INDUCTOR RF-CH-MLD 220NH+-5% .166D-INX. | 24226 | 15M220J |
| L44 | 85685-60024 | 5 | 1 | | 28480 | 85685-60024 |
| L45 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L46 | 9100-1623 | 8 | 1 | INDUCTOR RF-CH-MLD 27UH+-5% .166D-INX.3 | 99800 | 1537-48 |
| L47 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L48 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L49 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L50 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L51 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH\j | | |
| L52 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L53 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L54 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L55 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L56 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L57 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L58 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L59 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L60 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L61 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH+-5% .166D-INX. | 24226 | 15M150J |
| L62 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH+-5% .166D-INX. | 24226 | 15M150J |
| L63 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH+-5% .166D-INX. | 24226 | 15M150J |
| L64 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH+-5% .166D-INX. | 24226 | 15M150J |
| MP2 | 85685-20018 | 3 | 1 | | 28480 | 85685-20018 |
| MP3 | 85685-20019 | 4 | 1 | | 28480 | 85685-20019 |
| MP4 | 0520-0093 | 5 | 1 | SCREW-MACH 2-56 .375-IN-LGBDG-HD-SLT | 02751 | |
| MP5 | 0570-0031 | 6 | 1 | SCREW-MACH 4-40 .5-IN-LG\j | | |
| MP6 | 0515-0919 | 3 | 1 | SCREW-MACH M3 X 0.5 25MM-LGPAN-HD | | |
| MP7 | 85685-20059 | 2 | 1 | | 28480 | 85685-20059 |
| MP8 | 85685-20060 | 5 | 1 | | 28480 | 85685-20060 |
| R1 | 0698-3438 | 3 | 1 | RESISTOR 147 1% .125W TFTC=0+-100 | 19701 | SFR25H |

HP Part Number 85685-60003
Low Frequency Tuned Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|------------------------------------|----------|-----------------|
| R2 | 0698-3438 | 3 | 1 | RESISTOR 147 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R3 | 0698-3438 | 3 | 1 | RESISTOR 147 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R4 | 0698-3438 | 3 | 1 | RESISTOR 147 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R5 | 0698-3441 | 8 | 1 | RESISTOR 215 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R6 | 0698-3441 | 8 | 1 | RESISTOR 215 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R7 | 0698-3438 | 3 | 1 | RESISTOR 147 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R8 | 0698-3438 | 3 | 1 | RESISTOR 147 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R9 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R10 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R11 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R12 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R13 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R14 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R15 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R16 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R17 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R18 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R19 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R20 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R21 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R22 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R23 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R24 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R25 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R26 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R27 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R28 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R29 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R30 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF\j | | |
| R31 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| TP1 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP2 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP3 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP4 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP5 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP6 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP7 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP8 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP9 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP10 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP11 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |
| TP12 | 1252-0364 | 5 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68717-604 |

LF TUNED FILTER
85685-60003







Component-Level Information Packet

for 85685-60005

Processor Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90064

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



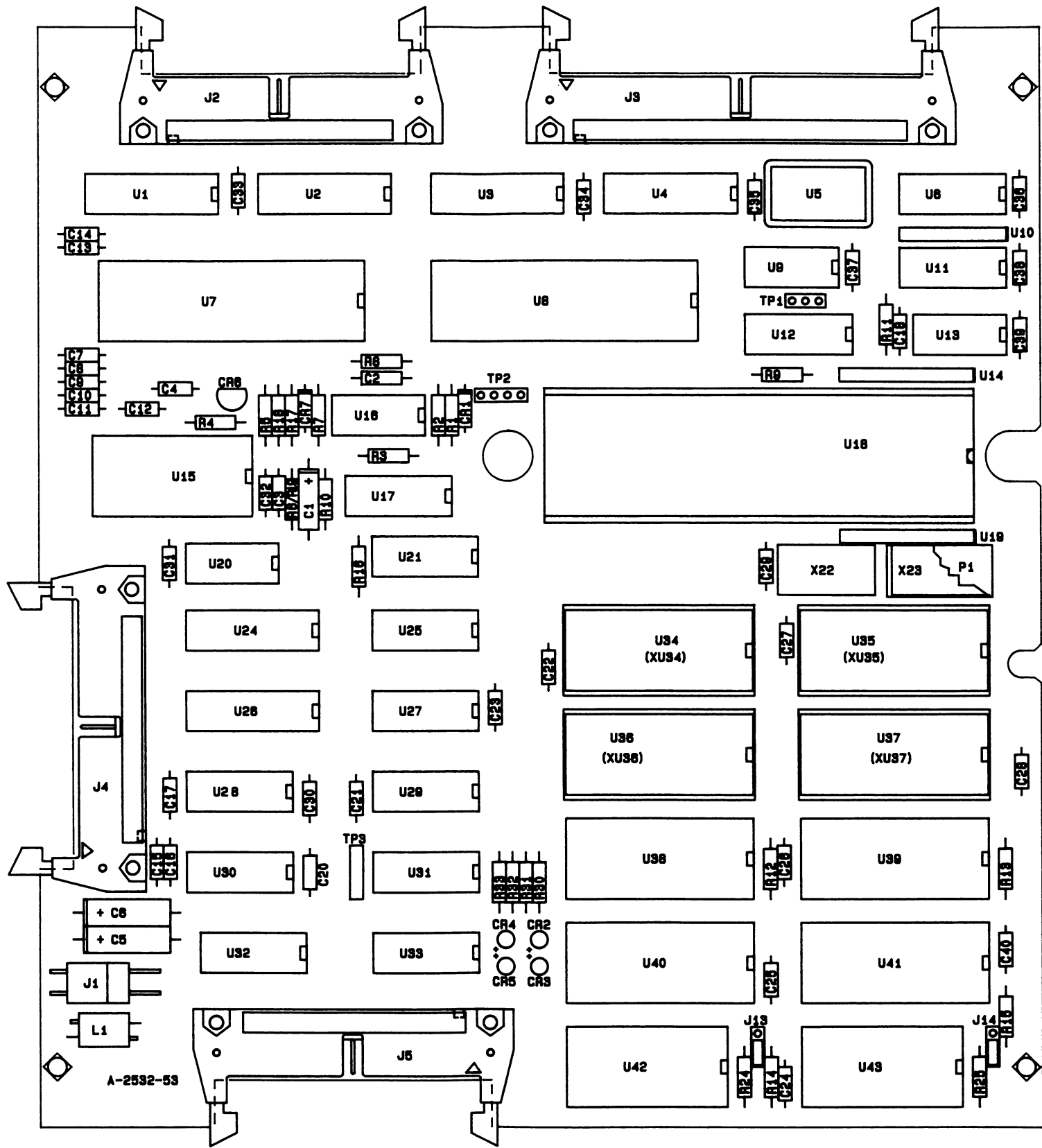
HP Part Number 85685-60005
Processor Assembly

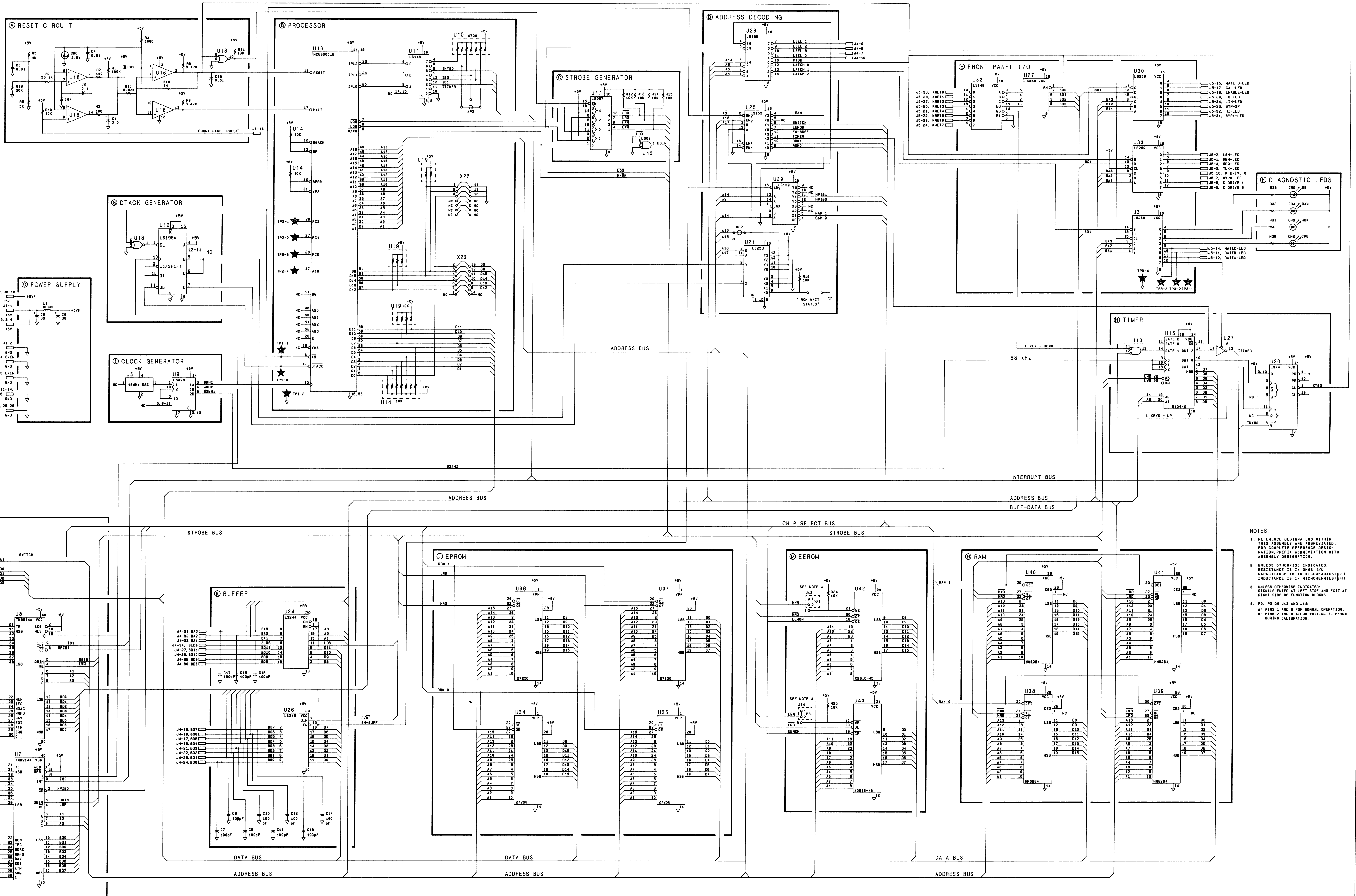
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|--------------------|
| C1 | 0180-0197 | 8 | 1 | CAPACITOR-FXD 2.2UF+-10% 20VDC TA | 56289 | 150D225X9020A2-DYS |
| C2 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C3 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C4 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C5 | 0180-0229 | 7 | 1 | CAP-FXD 33uF 10 V TA | 56289 | 150D336X9010B2-DYS |
| C6 | 0180-0229 | 7 | 1 | CAP-FXD 33uF 10 V TA | 56289 | 150D336X9010B2-DYS |
| C7 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C8 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C9 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C10 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C11 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C12 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C13 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C14 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C15 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C16 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C17 | 0160-4801 | 7 | 1 | CAPACITOR-FXD 100PF +-5% 100VDC CER 0+-3 | 04222 | SA102A101JAAH |
| C18 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C20 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C21 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C22 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C23 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C24 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C25 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C26 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C27 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C28 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C29 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C30 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C31 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C32 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C33 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C34 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C35 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C36 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C37 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C38 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C39 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C40 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| CR1 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR2 | 1990-0486 | 6 | 1 | LED-LAMP LUM-INT=2MCD IF=25MA-MAX BVR=5V | 28480 | HLMP-1301 |
| CR3 | 1990-0486 | 6 | 1 | LED-LAMP LUM-INT=2MCD IF=25MA-MAX BVR=5V | 28480 | HLMP-1301 |
| CR4 | 1990-0486 | 6 | 1 | LED-LAMP LUM-INT=2MCD IF=25MA-MAX BVR=5V | 28480 | HLMP-1301 |
| CR5 | 1990-0486 | 6 | 1 | LED-LAMP LUM-INT=2MCD IF=25MA-MAX BVR=5V | 28480 | HLMP-1301 |
| CR6 | 1826-1235 | 8 | 1 | IC V RGLTR-V-REF-FXD 2.462/2.538V TO-92 | 27014 | LM385BZ-2.5 |
| CR7 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| J1 | 1252-1195 | 2 | 1 | CONN-POST TYPE .156-PIN-SPCG 2-CONT | 00779 | 641210-2 |
| J2 | 1251-7166 | 7 | 1 | CONN-POST TYPE .100-PIN-SPCG 34-CONT | 76381 | 3431-1203 |

HP Part Number 85685-60005
Processor Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| U6 | 1820-1438 | 1 | 1 | IC MUXR/DATA-SEL TTL LS 2-TO-1-LINE QUAD | 01295 | SN74LS257BN |
| U7 | 1820-2548 | 6 | 1 | IC-GENERAL PURPOSE INTERFACE BUS ADAPTER | 01295 | TMS9914ANL |
| U8 | 1820-2548 | 6 | 1 | IC-GENERAL PURPOSE INTERFACE BUS ADAPTER | 01295 | TMS9914ANL |
| U9 | 1820-1989 | 7 | 1 | IC CNTR TTL LS BIN DUAL 4-BIT | 27014 | 74LS393PC |
| U10 | 1810-0205 | 7 | 1 | NETWORK-RES 8-SIP 4.7K OHM X 7 | 11236 | 750-81 |
| U11 | 1820-1851 | 2 | 1 | IC ENCDR TTL LS | 01295 | SN74LS148N |
| U12 | 1820-1300 | 6 | 1 | IC SHF-RGTR TTL LS R-S PRL-IN PRL-OUT 4- | 01295 | SN74LS195AN |
| U13 | 1820-1144 | 6 | 1 | IC GATE TTL LS NOR QUAD 2-INP | 01295 | SN74LS02N |
| U14 | 1810-0280 | 8 | 1 | NETWORK-RES 10-SIP 10.0K OHM X 9 | 91637 | MSP10A01 |
| U15 | 1820-3425 | 0 | 1 | IC-PROGRAMMABLE INTERVAL TIMER,DC-10MHZ | 34649 | D8254-2 |
| U16 | 1826-0759 | 9 | 1 | IC COMPARATOR GP QUAD 14-DIP-C PKG | 27014 | LM339J |
| U17 | 1820-1438 | 1 | 1 | IC MUXR/DATA-SEL TTL LS 2-TO-1-LINE QUAD | 01295 | SN74LS257BN |
| U18 | 1820-3532 | 0 | 1 | IC-16 BIT MICROPROCESSOR /8 MHZ | 04713 | MC68000P8 |
| U19 | 1810-0280 | 8 | 1 | NETWORK-RES 10-SIP 10.0K OHM X 9 | 91637 | MSP10A01 |
| U20 | 1820-1112 | 8 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG PRESET | 01295 | SN74LS74AN |
| U21 | 1820-1238 | 9 | 1 | IC MUXR/DATA-SEL TTL LS 4-TO-1-LINE DUAL | 01295 | SN74LS253N |
| U24 | 1820-2024 | 3 | 1 | IC DRVR TTL LS LINE DRVR OCTL | 01295 | SN74LS244N |
| U25 | 1820-1245 | 8 | 1 | IC DCDR TTL LS 2-TO-4-LINE DUAL 2-INP | 01295 | SN74LS155AN |
| U26 | 1820-2075 | 4 | 1 | IC TRANSCEIVER TTL LS BUS OCTL | 01295 | SN74LS245N |
| U27 | 1820-1492 | 7 | 1 | IC BFR TTL LS INV HEX 1-INP | 01295 | SN74LS368AN |
| U28 | 1820-1216 | 3 | 1 | IC DCDR TTL LS 3-TO-8-LINE 3-INP | 01295 | SN74LS138N |
| U29 | 1820-1281 | 2 | 1 | IC DCDR TTL LS 2-TO-4-LINE DUAL | 01295 | SN74LS139AN |
| U30 | 1820-1729 | 3 | 1 | IC LCH TTL LS COM CLEAR 8-BIT | 04713 | SN74LS259N |
| U31 | 1820-1729 | 3 | 1 | IC LCH TTL LS COM CLEAR 8-BIT | 04713 | SN74LS259N |
| U32 | 1820-1851 | 2 | 1 | IC ENCDR TTL LS | 01295 | SN74LS148N |
| U33 | 1820-1729 | 3 | 1 | IC LCH TTL LS COM CLEAR 8-BIT | 04713 | SN74LS259N |
| U34 | 85685-80063 | 4 | 1 | | 28480 | 85685-80063 |
| (U34) | 1818-3329 | 8 | 1 | IC CMOS 262144 (256K) EPROM 200-NS 3-S | 34335 | AM27C256-205DC |
| U35 | 85685-80061 | 2 | 1 | | 28480 | 85685-80061 |
| (U35) | 1818-3329 | 8 | 1 | IC CMOS 262144 (256K) EPROM 200-NS 3-S | 34335 | AM27C256-205DC |
| U36 | 1200-0567 | 1 | 1 | SOCKET-IC 28-CONT DIP DIP-SLDR | 09922 | DILB28P-308T |
| U36 | 85685-80064 | 5 | 1 | | 28480 | 85685-80064 |
| (U36) | 1818-3329 | 8 | 1 | IC CMOS 262144 (256K) EPROM 200-NS 3-S | 34335 | AM27C256-205DC |
| U37 | 1200-0567 | 1 | 1 | SOCKET-IC 28-CONT DIP DIP-SLDR | 09922 | DILB28P-308T |
| U37 | 85685-80062 | 3 | 1 | | 28480 | 85685-80062 |
| (U37) | 1818-3329 | 8 | 1 | IC CMOS 262144 (256K) EPROM 200-NS 3-S | 34335 | AM27C256-205DC |
| U38 | 1818-3183 | 2 | 1 | IC CMOS 65536 (64K) STAT RAM 150-NS 3-S | S4013 | HM6264LP-15 |
| U39 | 1818-3183 | 2 | 1 | IC CMOS 65536 (64K) STAT RAM 150-NS 3-S | S4013 | HM6264LP-15 |
| U40 | 1818-3183 | 2 | 1 | IC CMOS 65536 (64K) STAT RAM 150-NS 3-S | S4013 | HM6264LP-15 |
| U41 | 1818-3183 | 2 | 1 | IC CMOS 65536 (64K) STAT RAM 150-NS 3-S | S4013 | HM6264LP-15 |
| U42 | 1818-3333 | 4 | 1 | IC NMOS 16384 (16K) ELEC-ER-PROM 450-NS | | X2816ADI-45 |
| U43 | 1818-3333 | 4 | 1 | IC NMOS 16384 (16K) ELEC-ER-PROM 450-NS | | X2816ADI-45 |
| X22 | 1200-0638 | 7 | 1 | SOCKET-IC 14-CONT DIP DIP-SLDR | 09922 | DILB14P-308T |
| X23 | 1200-0638 | 7 | 1 | SOCKET-IC 14-CONT DIP DIP-SLDR | 09922 | DILB14P-308T |
| XU36 | 1200-0567 | 1 | 1 | SOCKET-IC 28-CONT DIP DIP-SLDR | 09922 | DILB28P-308T |
| XU37 | 1200-0567 | 1 | 1 | SOCKET-IC 28-CONT DIP DIP-SLDR | 09922 | DILB28P-308T |

PROCESSOR
85685-60005





- NOTES:
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
 2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω) CAPACITANCE IS IN MICROFARADS (μF) INDUCTANCE IS IN MICROHENRIES (μH)
 3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.
 4. P2, P3 ON J18 AND J14: a) PINS 1 AND 2 FOR NORMAL OPERATION. b) PINS 2 AND 3 ALLOW WRITING TO EEROM DURING CALIBRATION.


| J1 | | | |
|-----|--------|------------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | +5V | A13A1J3-10 | O |
| 2 | GND | A13A1J3-9 | O |

| J2 | | | |
|-----|---------|------------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | PRIDI01 | A13A2J3-1 | J |
| 2 | GND | | O |
| 3 | PRIDI02 | A13A2J3-2 | J |
| 4 | GND | | O |
| 5 | PRIDI03 | A13A2J3-3 | J |
| 6 | GND | | O |
| 7 | PRIDI04 | A13A2J3-4 | J |
| 8 | GND | | O |
| 9 | PRIDI05 | A13A2J3-13 | J |
| 10 | GND | | O |
| 11 | PRIDI06 | A13A2J3-14 | J |
| 12 | GND | | O |
| 13 | PRIDI07 | A13A2J3-15 | J |
| 14 | GND | | O |
| 15 | PRIDI08 | A13A2J3-16 | J |
| 16 | GND | | O |
| 17 | NC | | |
| 18 | GND | | O |
| 19 | PRIREN | A13A2J3-17 | J |
| 20 | GND | | O |
| 21 | PRIE01 | A13A2J3-5 | J |
| 22 | GND | | O |
| 23 | PRIDAV | A13A2J3-6 | J |
| 24 | GND | | O |
| 25 | PRIRFD | A13A2J3-7 | J |
| 26 | GND | | O |
| 27 | PRINDAC | A13A2J3-8 | J |
| 28 | GND | | O |
| 29 | PRIFC | A13A2J3-9 | J |
| 30 | GND | | O |
| 31 | PRISRQ | A13A2J3-10 | J |
| 32 | GND | | O |
| 33 | PRIATN | A13A2J3-11 | J |
| 34 | GND | | O |

| J3 | | | |
|-----|---------|------------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | PUBDI01 | A13A2J4-1 | J |
| 2 | GND | | O |
| 3 | PUBDI02 | A13A2J4-2 | J |
| 4 | GND | | O |
| 5 | PUBDI03 | A13A2J4-3 | J |
| 6 | GND | | O |
| 7 | PUBDI04 | A13A2J4-4 | J |
| 8 | GND | | O |
| 9 | PUBDI05 | A13A2J4-13 | J |
| 10 | GND | | |
| 11 | PUBDI06 | A13A2J4-14 | J |
| 12 | GND | | |
| 13 | PUBDI07 | A13A2J4-15 | J |
| 14 | GND | | |
| 15 | PUBDI08 | A13A2J4-16 | J |
| 16 | GND | | O |
| 17 | +5V | | O |
| 18 | GND | | O |
| 19 | PUBREN | A13A2J4-17 | J |
| 20 | GND | | O |
| 21 | PUBEOI | A13A2J4-5 | J |
| 22 | GND | | O |
| 23 | PUBDAY | A13A2J4-6 | J |
| 24 | GND | | |
| 25 | PUBNRFD | A13A2J4-7 | J |
| 26 | GND | | |
| 27 | PUBNDAC | A13A2J4-8 | J |
| 28 | GND | | |
| 29 | PUBIFC | A13A2J4-9 | J |
| 30 | GND | | |
| 31 | PUBSRQ | A13A2J4-10 | J |
| 32 | GND | | |
| 33 | PUBATN | A13A2J4-11 | J |
| 34 | GND | | |
| 35 | SW6 | A13A2J1-35 | J |
| 36 | GND | | |
| 37 | SW2 | A13A2J1-37 | J |
| 38 | GND | | |
| 39 | SW7 | A13A2J1-39 | J |
| 40 | GND | | |
| 41 | SW3 | A13A2J1-41 | J |
| 42 | GND | | |
| 43 | SW5 | A13A2J1-43 | J |
| 44 | GND | | |
| 45 | SW1 | A13A2J1-45 | J |
| 46 | GND | | |
| 47 | SW4 | A13A2J1-47 | J |
| 48 | GND | | |
| 49 | SW8 | A13A2J1-49 | J |
| 50 | GND | | |

| J4 | | | |
|-----|--------|----------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | +5V | A12J1-1 | O |
| 2 | +5V | A12J1-2 | O |
| 3 | +5V | A12J1-3 | O |
| 4 | +5V | A12J1-4 | O |
| 5 | GND | A12J1-5 | O |
| 6 | GND | A12J1-6 | O |
| 7 | LSEL 3 | | D |
| 8 | LSEL 2 | A12J1-8 | D |
| 9 | LSEL 1 | A12J1-9 | D |
| 10 | LSEL 8 | A12J1-10 | D |
| 11 | GND | A12J1-11 | O |
| 12 | GND | A12J1-12 | O |
| 13 | GND | A12J1-13 | O |
| 14 | GND | A12J1-14 | O |
| 15 | BD7 | A12J1-15 | K |
| 16 | BD6 | A12J1-16 | K |
| 17 | BD5 | A12J1-17 | K |
| 18 | BD4 | A12J1-18 | K |
| 19 | GND | A12J1-19 | O |
| 20 | GND | A12J1-20 | O |
| 21 | BD3 | A12J1-21 | K |
| 22 | BD2 | A12J1-22 | K |
| 23 | BD1 | A12J1-23 | K |
| 24 | BD8 | A12J1-24 | K |
| 25 | GND | A12J1-25 | O |
| 26 | GND | A12J1-26 | O |
| 27 | BD11 | A12J1-27 | K |
| 28 | BD10 | A12J1-28 | K |
| 29 | BD9 | A12J1-29 | K |
| 30 | BD8 | A12J1-30 | K |
| 31 | BA3 | A12J1-31 | K |
| 32 | BA2 | A12J1-32 | K |
| 33 | BA1 | A12J1-33 | K |
| 34 | BLDS | A12J1-34 | K |

| J5 | | | |
|-----|------------|-----------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | REM-LED | A1A1J1-1 | E |
| 2 | LSN-LED | A1A1J1-2 | E |
| 3 | TLK-LED | A1A1J1-3 | E |
| 4 | SRQ-LED | A1A1J1-4 | E |
| 5 | K DRIVE 2 | A1A1J1-5 | E |
| 6 | GND | A1A1J1-6 | O |
| 7 | BYP8-LED | A1A1J1-7 | E |
| 8 | K DRIVE 1 | A1A1J1-8 | E |
| 9 | GND | A1A1J1-9 | O |
| 10 | K DRIVE 8 | A1A1J1-10 | E |
| 11 | RATE B-LED | A1A1J1-11 | E |
| 12 | RATE A-LED | A1A1J1-12 | E |
| 13 | PRESET | A1A1J1-13 | A |
| 14 | RATE C-LED | A1A1J1-14 | E |
| 15 | RATE D-LED | A1A1J1-15 | E |
| 16 | +5V | A1A1J1-16 | O |
| 17 | CAL-LED | A1A1J1-17 | E |
| 18 | ENABLE-LED | A1A1J1-18 | E |
| 19 | GND | A1A1J1-19 | O |
| 20 | LO-LED | A1A1J1-20 | E |
| 21 | KRET4 | A1A1J1-21 | E |
| 22 | KRET5 | A1A1J1-22 | E |
| 23 | KRET6 | A1A1J1-23 | E |
| 24 | KRET7 | A1A1J1-24 | E |
| 25 | KRET9 | A1A1J1-25 | E |
| 26 | GND | A1A1J1-26 | O |
| 27 | KRET2 | A1A1J1-27 | E |
| 28 | KRET1 | A1A1J1-28 | E |
| 29 | GND | A1A1J1-29 | O |
| 30 | KRET8 | A1A1J1-30 | E |
| 31 | BYP1-LED | A1A1J1-31 | E |
| 32 | H1-LED | A1A1J1-32 | E |
| 33 | BYP-SW | A1A1J1-33 | E |
| 34 | LIN-LED | A1A1J1-34 | E |



Component-Level Information Packet

for 85685-60014

Low-Frequency Motherboard Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90059

Printed October 1989
Printed in USA

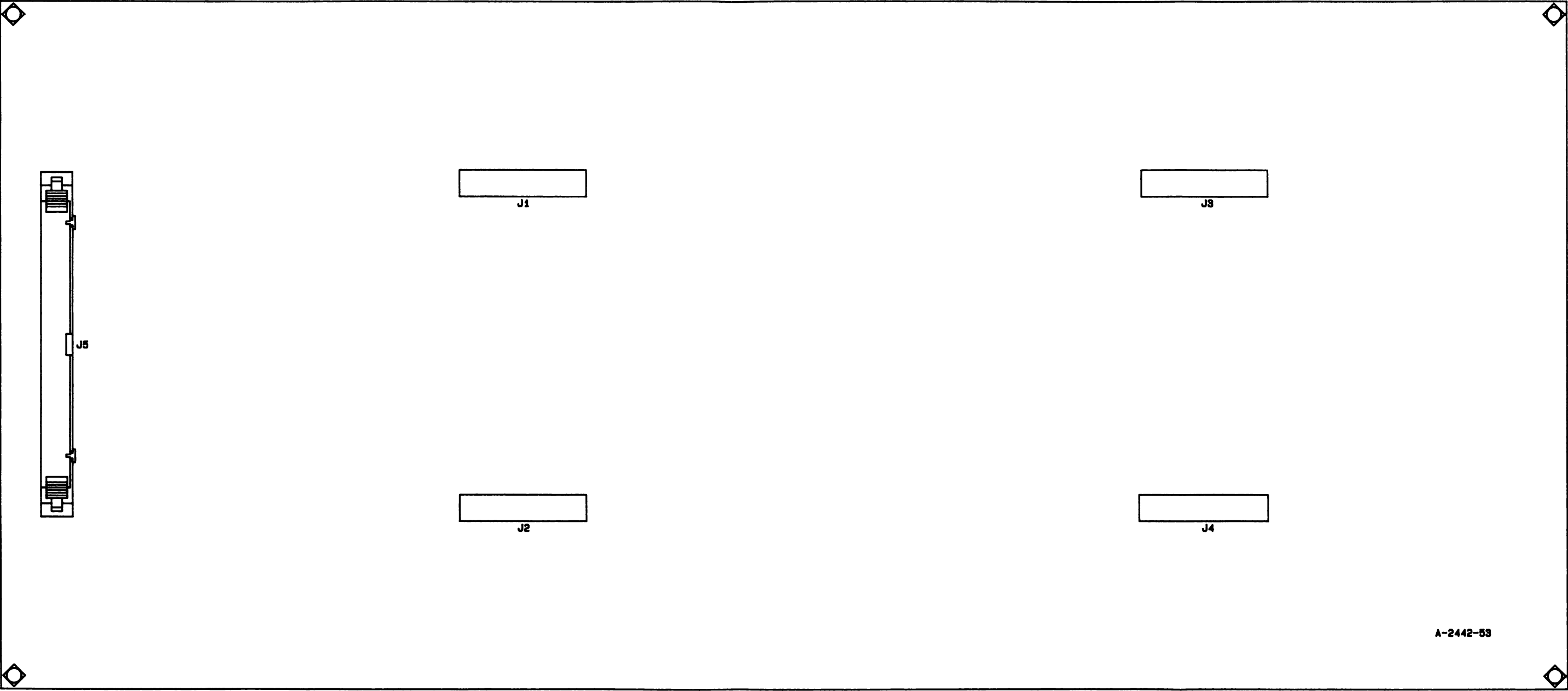
Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



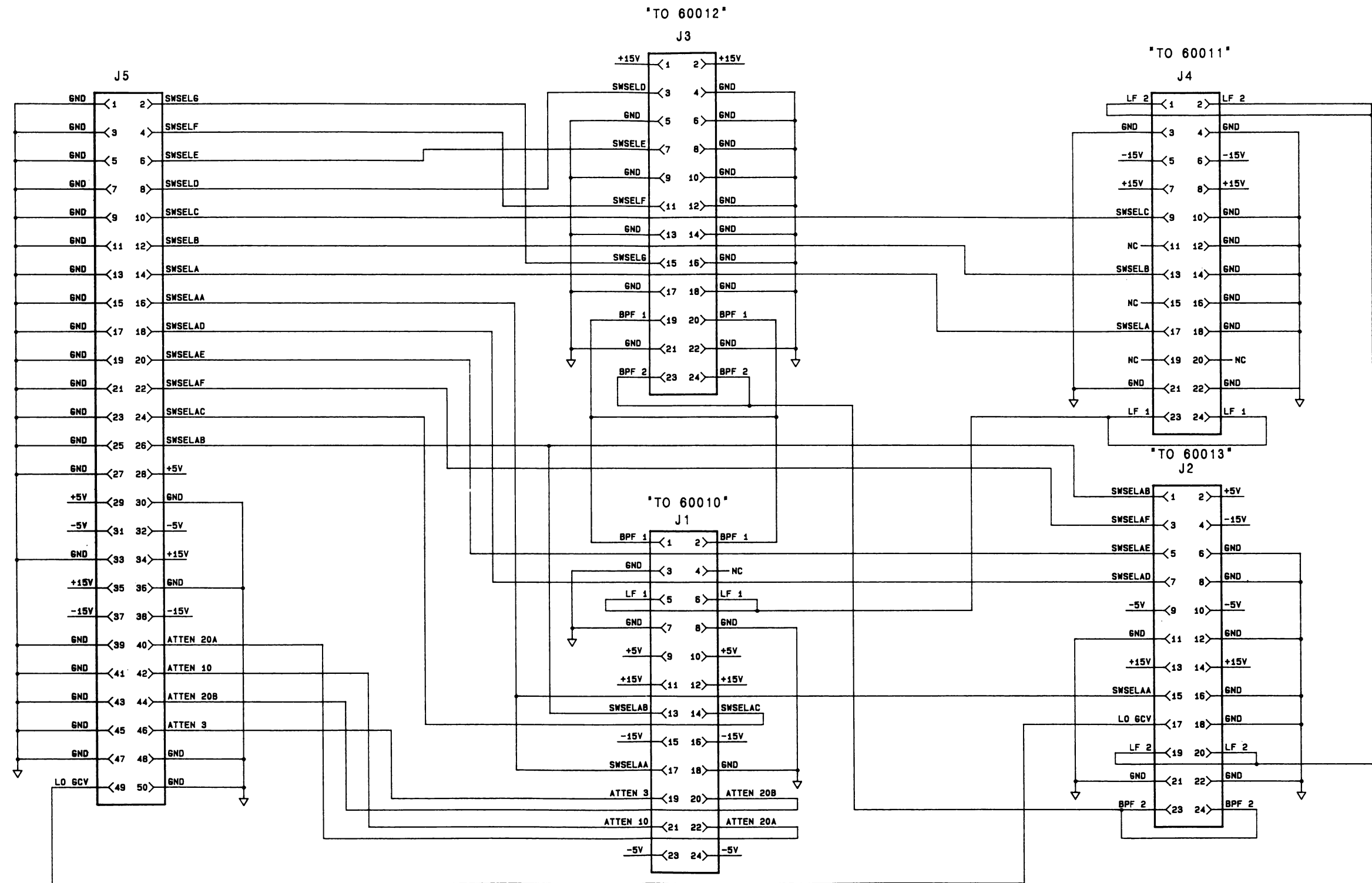
HP Part Number 85685-60014
Low Frequency Motherboard Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|-------------------------------------|----------|-----------------|
| J1 | 1252-0212 | 2 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 103177-6 |
| J2 | 1252-0212 | 2 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 103177-6 |
| J3 | 1252-0212 | 2 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 103177-6 |
| J4 | 1252-0212 | 2 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 103177-6 |
| J5 | 1251-6334 | 9 | 1 | CONN-POST TYPE.100-PIN-SPCG 50-CONT | 76381 | 3433-2203 |

**Indicates factory-selected value*



A7 LOW FREQUENCY
MOTHERBOARD
85685-60014





Component-Level Information Packet

for 85685-60015

Power Supply Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90066

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



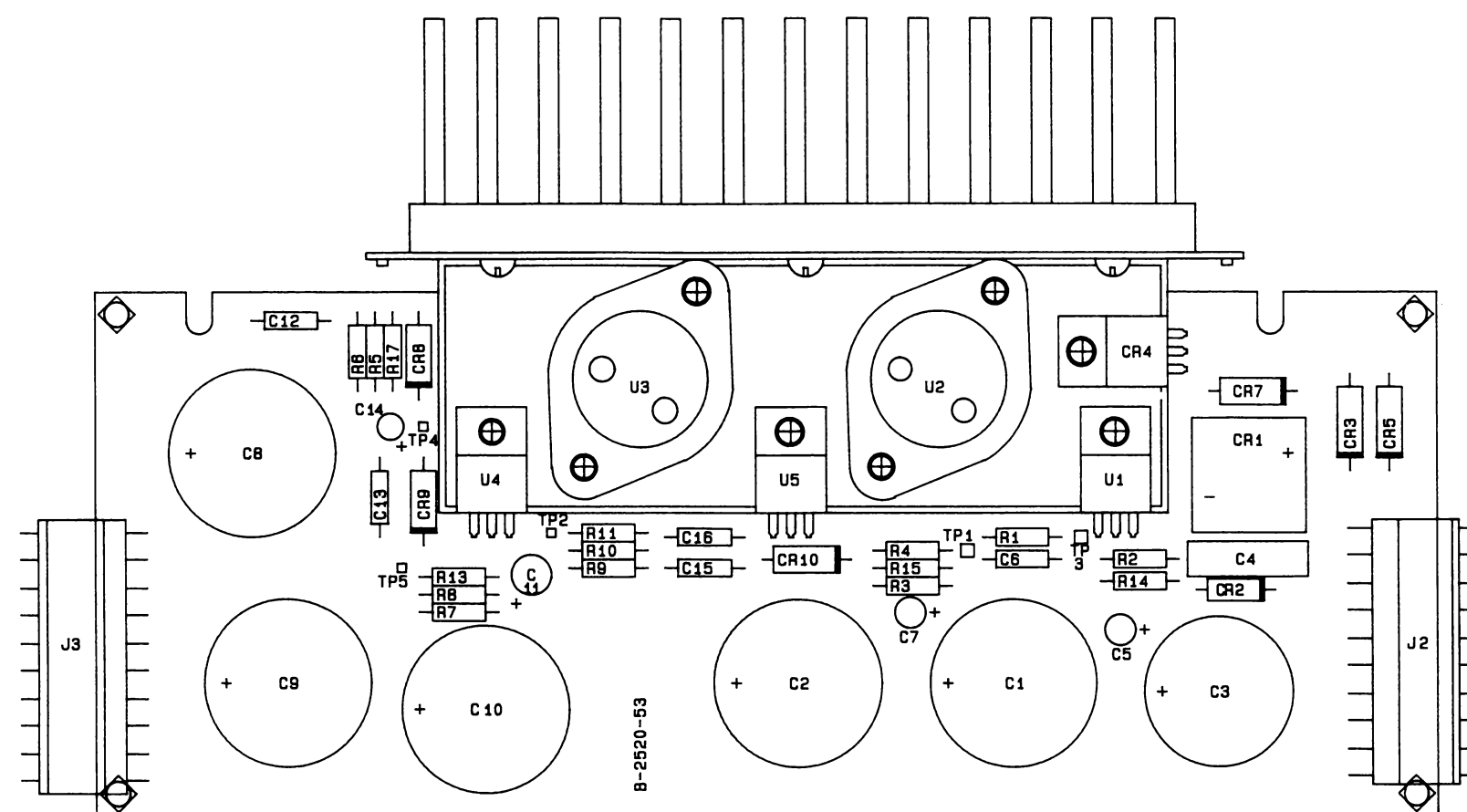
HP Part Number 85685-60015
Power Supply Assembly

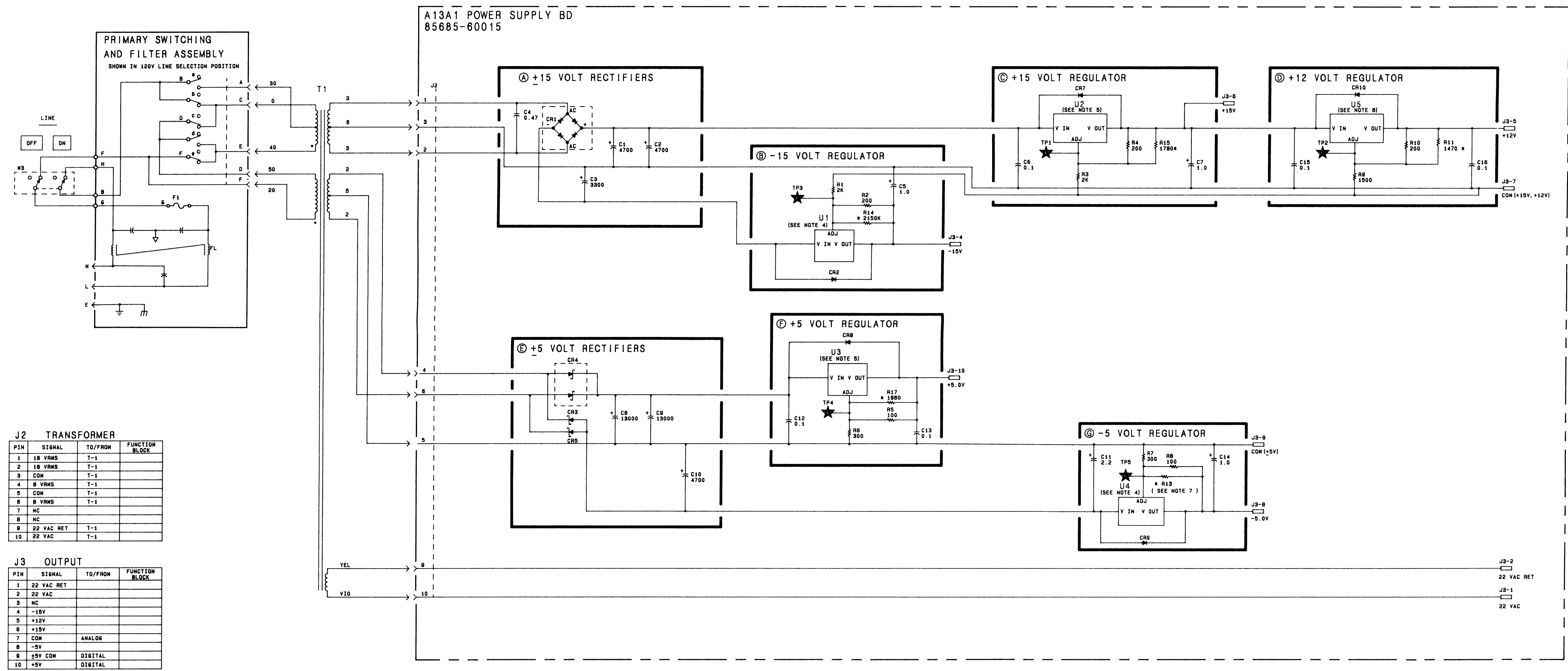
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| *R11 | 0757-1094 | 9 | 1 | RESISTOR 1.47K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| *R13 | 0698- | 3 | 1 | | 28480 | 0698- |
| *R14 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| *R15 | 0757-0278 | 9 | 1 | RESISTOR 1.78K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| *R17 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| C1 | 0180-3451 | 3 | 1 | CAPACITOR-FXD 4700UF+30-10% 50VDC AL | 28480 | 0180-3451 |
| C2 | 0180-3451 | 3 | 1 | CAPACITOR-FXD 4700UF+30-10% 50VDC AL | 28480 | 0180-3451 |
| C3 | 0180-3161 | 2 | 1 | CAPACITOR-FXD 3300UF+30-10% 50VDC AL | 28480 | 0180-3161 |
| C4 | 0160-3724 | 1 | 1 | CAPACITOR-FXD .47UF +-10% 40VDC MET-POLY | 28480 | 0160-3724 |
| C5 | 0180-2661 | 5 | 1 | CAPACITOR-FXD 1UF+-10% 50VDC TA | 56289 | 199D1135 |
| C6 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C7 | 0180-2661 | 5 | 1 | CAPACITOR-FXD 1UF+-10% 50VDC TA | 56289 | 199D1135 |
| C8 | 0180-3411 | 5 | 1 | CAPACITOR-FXD .015F+30-10% 25VDC AL | 28480 | 0180-3411 |
| C9 | 0180-3411 | 5 | 1 | CAPACITOR-FXD .015F+30-10% 25VDC AL | 28480 | 0180-3411 |
| C10 | 0180-3539 | 8 | 1 | CAPACITOR-FXD 4700UF+30-10% 25VDC AL | 56289 | 80D472P025HD2 |
| C11 | 0180-2620 | 6 | 1 | CAPACITOR-FXD 2.2UF+-10% 50VDC TA | 56289 | 199D1134 |
| C12 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C13 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C14 | 0180-2661 | 5 | 1 | CAPACITOR-FXD 1UF+-10% 50VDC TA | 56289 | 199D1135 |
| C15 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| C16 | 0160-4557 | 0 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 04222 | SA305C104MAAH |
| CR1 | 1906-0079 | 6 | 1 | DIODE-FW BRDG 100V 10A | 28480 | 1906-0079 |
| CR2 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA DO-29 | 28480 | 1901-0028 |
| CR3 | 1901-0935 | 3 | 1 | DIODE-PWR RECT 45V 8A | 28480 | 1901-0935 |
| CR4 | 1906-0269 | 6 | 1 | DIODE-CT-RECT 40V 10.8A | 9M011 | 12CTQ040 |
| CR5 | 1901-0935 | 3 | 1 | DIODE-PWR RECT 45V 8A | 28480 | 1901-0935 |
| CR7 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA DO-29 | 28480 | 1901-0028 |
| CR8 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA DO-29 | 28480 | 1901-0028 |
| CR9 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA DO-29 | 28480 | 1901-0028 |
| CR10 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA DO-29 | 28480 | 1901-0028 |
| J2 | 1251-4984 | 1 | 1 | CONN-POST TYPE .156-PIN-SPCG 10-CONT | 27264 | 09-75-1101 |
| J3 | 1252-1248 | 6 | 1 | CONN-POST TYPE .156-PIN-SPCG 10-CONT | 00779 | 1-641210-0 |
| MP2 | 0590-1088 | 7 | 1 | THREADED INSERT-NUT M3 X 0.5 1.5-MM-LG | 46384 | S-M3-2-ZI |
| MP3 | 0590-1445 | 0 | 1 | THREADED INSERT-NUT M3 X 0.5 1.5-MM-LG | 28480 | 0590-1445 |
| MP4 | 0380-1002 | 0 | 1 | SPACER-RND .155-IN-LG .113-IN-ID | 28480 | 0380-1002 |
| MP7 | 0515-1453 | 2 | 1 | SCREW-MACHINE ASSEMBLY M3 X 0.5 12MM-LG | | |
| MP9 | 85685-00017 | 0 | 1 | SPRT-HEAT SINK | 28480 | 85685-00017 |
| MP10 | 85685-00020 | 5 | 1 | INSUL-PWR SUPP | 28480 | 85685-00020 |
| MP11 | 85685-60069 | 8 | 1 | HEAT SINK AY | 28480 | 85685-60069 |
| R1 | 0698-6624 | 5 | 1 | RESISTOR 2K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R2 | 0698-6377 | 5 | 1 | RESISTOR 200 .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R3 | 0698-6624 | 5 | 1 | RESISTOR 2K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R4 | 0698-6377 | 5 | 1 | RESISTOR 200 .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R5 | 0698-6323 | 1 | 1 | RESISTOR 100 .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R6 | 0698-6346 | 8 | 1 | RESISTOR 300 .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R7 | 0698-6346 | 8 | 1 | RESISTOR 300 .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R8 | 0698-6323 | 1 | 1 | RESISTOR 100 .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R9 | 0698-6347 | 9 | 1 | RESISTOR 1.5K .1% .125W TF TC=0+-25 | 19701 | 5033R |

**Indicates factory-selected value*

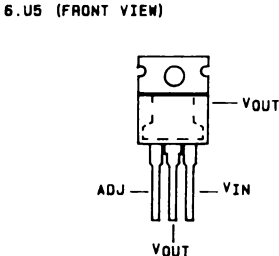
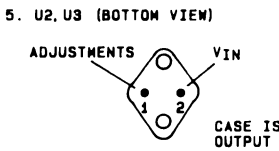
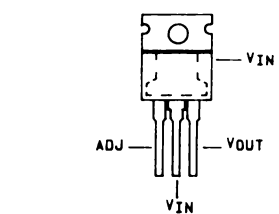
HP Part Number 85685-60015
Power Supply Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---------------------------------------|----------|-----------------|
| R10 | 0698-6377 | 5 | 1 | RESISTOR 200 .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| U1 | 1826-0527 | 9 | 1 | IC V RGLTR-ADJ-NEG 1.2/37V TO-220 PKG | 27014 | LM337T |
| U2 | 1826-0631 | 6 | 1 | IC V RGLTR-ADJ-POS 1.2/33V TO-3 PKG | 27014 | LM350K |
| U3 | 1826-0677 | 0 | 1 | IC V RGLTR-ADJ-POS 1.2/32V TO-3 PKG | 27014 | LM338K |
| U4 | 1826-0527 | 9 | 1 | IC V RGLTR-ADJ-NEG 1.2/37V TO-220 PKG | 27014 | LM337T |
| U5 | 1826-0393 | 7 | 1 | IC V RGLTR-ADJ-POS 1.2/37V TO-220 PKG | 27014 | LM317T |






- NOTES:
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
 2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω); CAPACITANCE IS IN MICROFARADS (μ F); INDUCTANCE IS IN MICROHENRIES (μ H).
 3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.
 4. U1, U4 (FRONT VIEW)



7. R13 NOT NORMALLY LOADED.



Component-Level Information Packet

for 85685-60016

HP-IB Connectors Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90067

Printed October 1989
Printed in USA

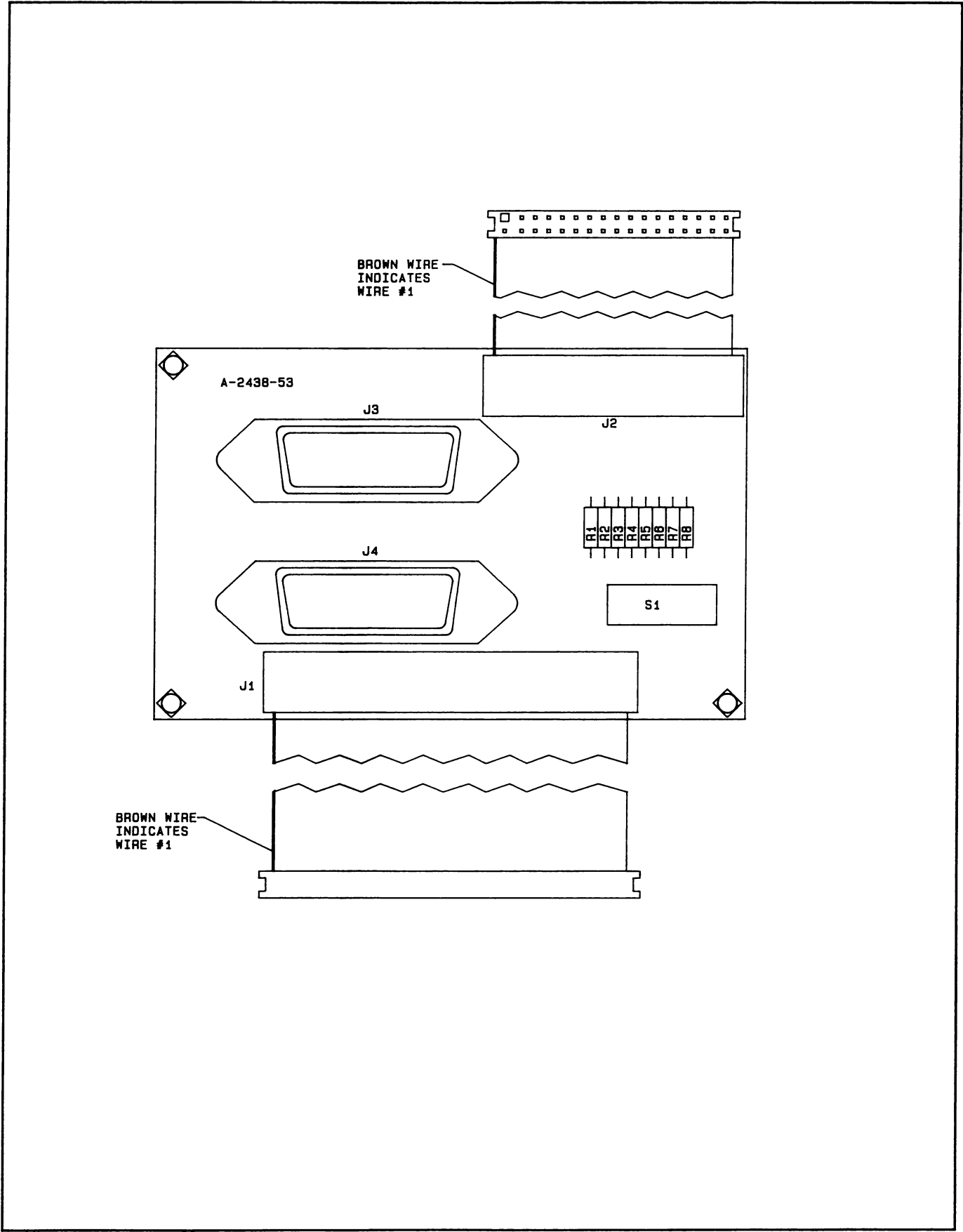
Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



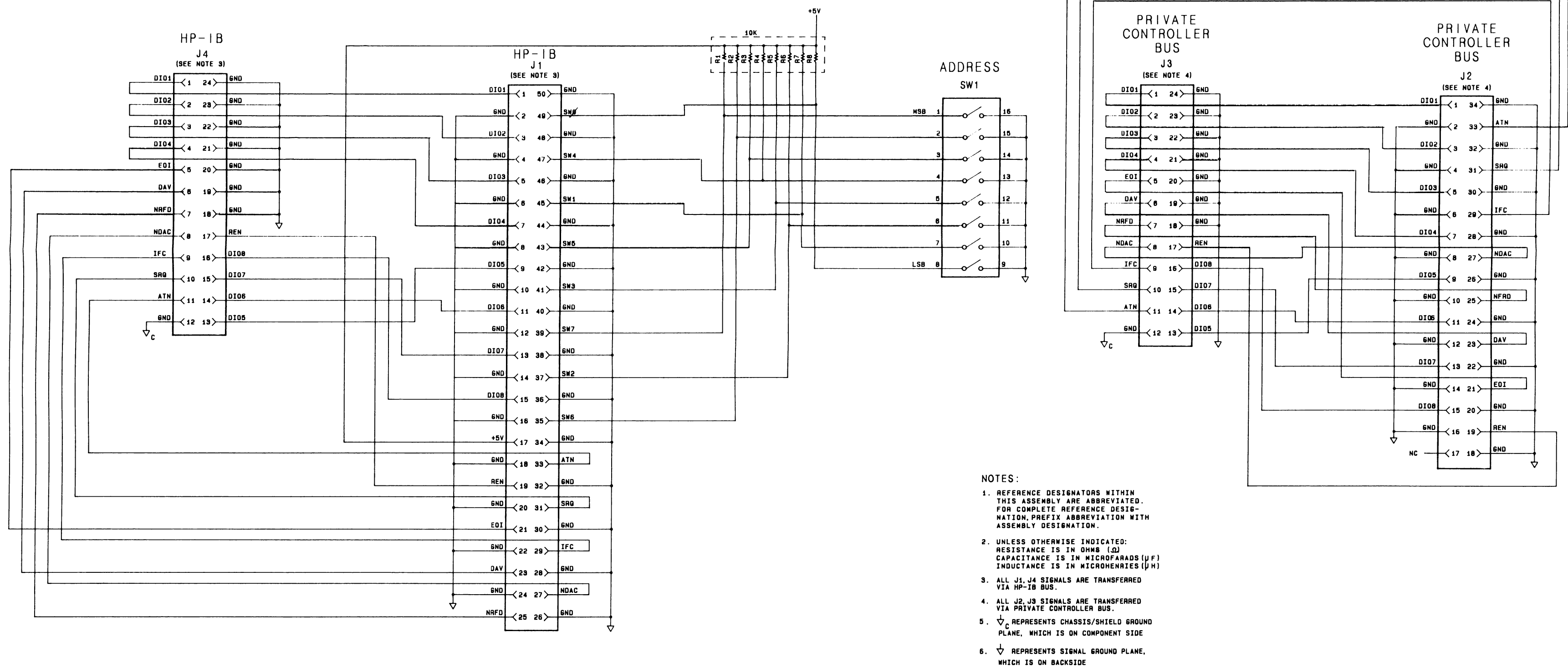
HP Part Number 85685-60016
HP-IB Connectors Assembly


| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|------------------------------------|----------|-----------------|
| J1 | 85685-60103 | 1 | 1 | RBN AY-PROC HPIB | 28480 | 85685-60103 |
| J2 | 85685-60049 | 4 | 1 | RBN AY-PROC HPIB | 28480 | 85685-60049 |
| J3 | 1251-4040 | 0 | 1 | CONN-RECT MICRORBN 24-CKT 24-CONT | 28480 | 1251-4040 |
| J4 | 1251-4040 | 0 | 1 | CONN-RECT MICRORBN 24-CKT 24-CONT | 28480 | 1251-4040 |
| R1 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R2 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R3 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R4 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R5 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R6 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R7 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R8 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| S1 | 3101-2094 | 5 | 1 | SWITCH-DIP RKR 8-1A 0.05A 30VDC | 81073 | 76SB08S |

*Indicates factory-selected value



HP1B CONNECTOR, COMPONENT LOCATIONS: 85685-60016





Component-Level Information Packet

for 85685-60095

Charge Pump Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90054

Printed October 1989

Printed in USA

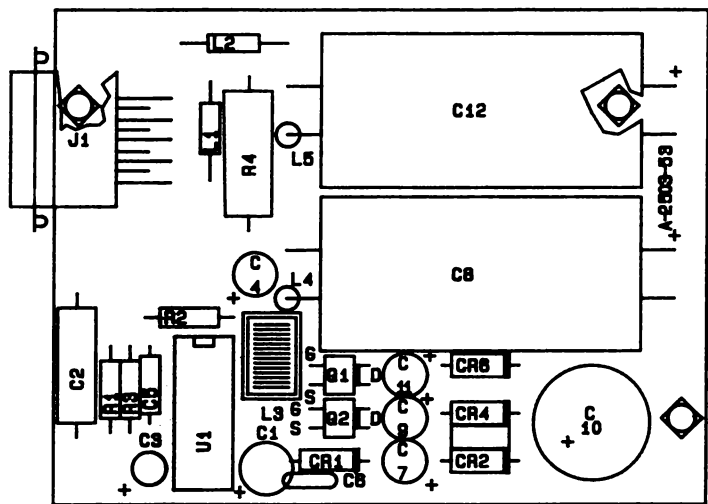
Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



HP Part Number 85685-60095
Charge Pump Assembly

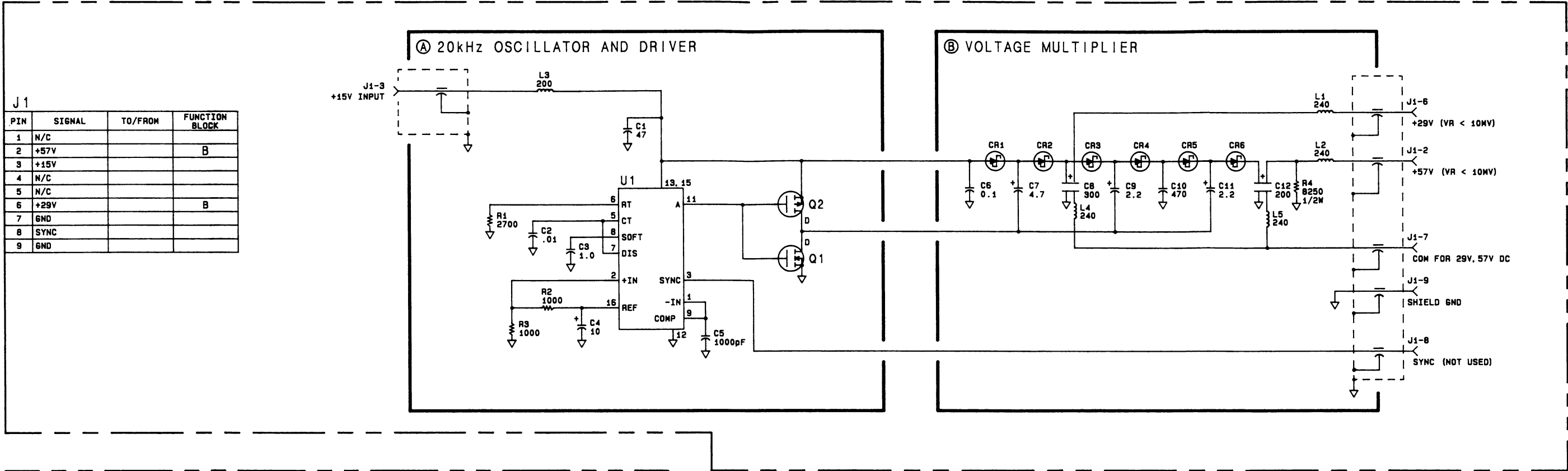
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| C1 | 0180-0500 | 7 | 1 | CAPACITOR-FXD 47UF+-20% 20VDC TA | 56289 | 199D1114 |
| C2 | 0160-0161 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 200VDC POLYE | 84411 | HEW-238M |
| C3 | 0180-2661 | 5 | 1 | CAPACITOR-FXD 1UF+-10% 50VDC TA | 56289 | 199D1135 |
| C4 | 0180-2697 | 7 | 1 | CAPACITOR-FXD 10UF+-10% 25VDC TA | 56289 | 199D1141 |
| C5 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5% 100VDC CER 0+- | 04222 | SA2A101A102JAAH |
| C6 | 0160-4084 | 8 | 1 | CAPACITOR-FXD .1UF +-20% 50VDC CER | 56289 | 1C20X7R104M050B |
| C7 | 0180-0630 | 4 | 1 | CAPACITOR-FXD 4.7UF+-20% 50VDC TA | 56289 | 199D1123 |
| C8 | 0180-3506 | 9 | 1 | CAPACITOR-FXD 300UF+50-10% 50VDC AL | 56289 | 604D301F050GJ6 |
| C9 | 0180-2620 | 6 | 1 | CAPACITOR-FXD 2.2UF+-10% 50VDC TA | 56289 | 199D1134 |
| C10 | 0180-3434 | 2 | 1 | CAPACITOR-FXD 470UF+-20% 63VDC AL | 28480 | 0180-3434 |
| C11 | 0180-3684 | 4 | 1 | CAPACITOR-FXD 2.2UF+-20% 100VDC AL | 28480 | 0180-3684 |
| C12 | 0180-3505 | 8 | 1 | CAPACITOR-FXD 200UF+50-10% 75VDC AL | 56289 | 604D201F075GJ6 |
| CR1 | 1901-0937 | 5 | 1 | DIODE-PWR RECT 60V 1A DO-41 | 28480 | 1901-0937 |
| CR2 | 1901-0937 | 5 | 1 | DIODE-PWR RECT 60V 1A DO-41 | 28480 | 1901-0937 |
| CR3 | 1901-0937 | 5 | 1 | DIODE-PWR RECT 60V 1A DO-41 | 28480 | 1901-0937 |
| CR4 | 1901-0937 | 5 | 1 | DIODE-PWR RECT 60V 1A DO-41 | 28480 | 1901-0937 |
| CR5 | 1901-0937 | 5 | 1 | DIODE-PWR RECT 60V 1A DO-41 | 28480 | 1901-0937 |
| CR6 | 1901-0937 | 5 | 1 | DIODE-PWR RECT 60V 1A DO-41 | 28480 | 1901-0937 |
| J1 | 1252-0639 | 7 | 1 | CONN-RECT D-SUBMIN 9-CKT 9-CONT | 33095 | 56-702-012 |
| L1 | 9100-1641 | 0 | 1 | INDUCTOR RF-CH-MLD 240UH +-5% .166D-INX. | 99800 | 1537-94 |
| L2 | 9100-1641 | 0 | 1 | INDUCTOR RF-CH-MLD 240UH +-5% .166D-INX. | 99800 | 1537-94 |
| L3 | 9140-0736 | 6 | 1 | INDUCTOR-FIXED L:200 UH MIN @ 0.35 ADC,1 | 28480 | 9140-0736 |
| L4 | 9100-1641 | 0 | 1 | INDUCTOR RF-CH-MLD 240UH +-5% .166D-INX. | 99800 | 1537-94 |
| L5 | 9100-1641 | 0 | 1 | INDUCTOR RF-CH-MLD 240UH +-5% .166D-INX. | 99800 | 1537-94 |
| Q1 | 1855-0520 | 3 | 1 | TRANSISTOR MOSFET N-CHAN E-MODE SI | 9M011 | IRFD113 |
| Q2 | 1855-0567 | 8 | 1 | TRANSISTOR MOSFET P-CHAN E-MODE SI | 9M011 | IRFD9123 |
| R1 | 0698-3151 | 7 | 1 | RESISTOR 2.87K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R2 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R3 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R4 | 0757-0837 | 6 | 1 | RESISTOR 8.25K 1% .5W TF TC=0+-100 | 19701 | 5053R |
| U1 | 1826-1243 | 8 | 1 | IC V RGLTR-SWG 5/5.2V 16-DIP-C PKG | 34333 | SG3527AJ |

CHARGE PUMP
85685-60095

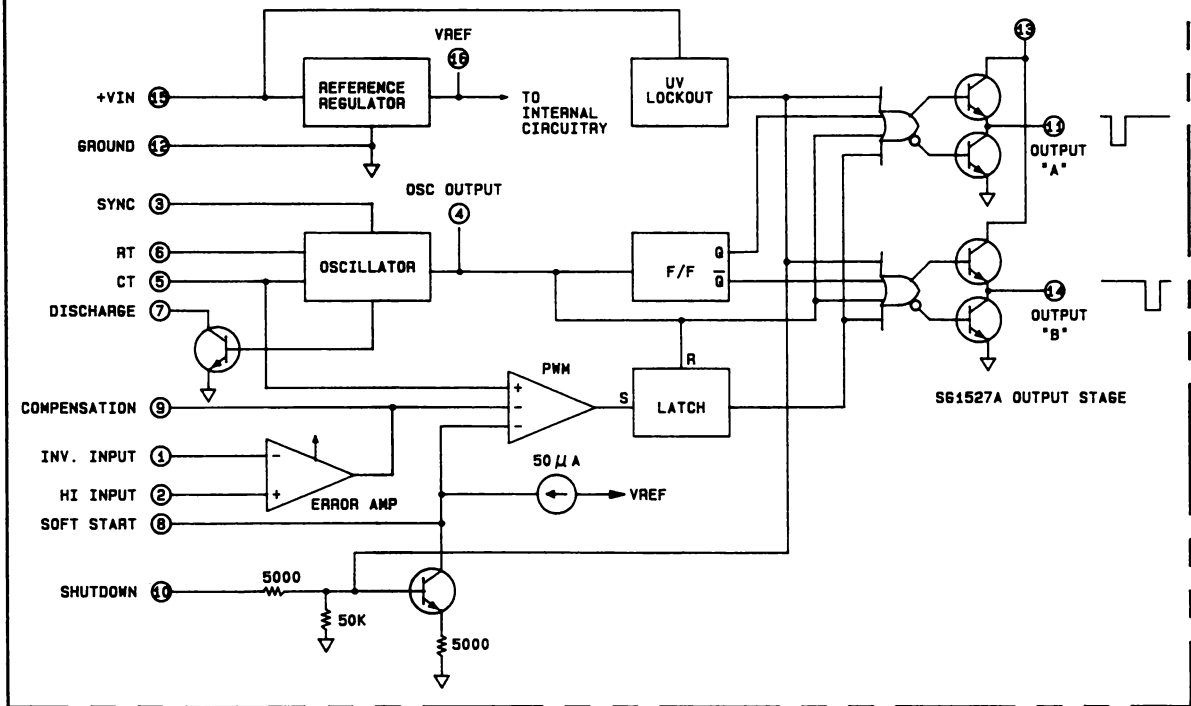


CHARGE PUMP, COMPONENT LOCATIONS: 85685-60095

A2A1 CHARGE PUMP
85685-60095



U1-BLOCK DIAGRAM



- NOTES:
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
 2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω) CAPACITANCE IS IN MICROFARADS (μ F) INDUCTANCE IS IN MICROHENRIES (μ H)
 3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.



Component-Level Information Packet

for 85685-60097

Fixed Bandpass Filters Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90056

**Printed October 1989
Printed in USA**

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



HP Part Number 85685-60097
Fixed Bandpass Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|--------------------|
| A4W1 | 8159-0005 | 0 | 1 | RESISTOR-ZERO OHMS 22 AWGLEAD DIA | 55210 | L-2007-1 |
| C1 | 0180-0116 | 1 | 1 | CAPACITOR-FXD 6.8UF+-10%35VDC TA | 56289 | 150D685X9035B2-DYS |
| C2 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10%50VDC CER | 28480 | 0160-4535 |
| C3 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10%50VDC CER | 28480 | 0160-4535 |
| C4 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C5 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C6 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C7 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C8 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10%50VDC CER | 28480 | 0160-4535 |
| C9 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C10 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C11 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C12 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C13 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C14 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C15 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C16 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10%50VDC CER | 28480 | 0160-4535 |
| C17 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10%50VDC CER | 28480 | 0160-4535 |
| C18 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10%50VDC CER | 28480 | 0160-4535 |
| C19 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C20 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5%100VDC CER 0+- | 04222 | SA201A102JAAH |
| C21 | 0160-4821 | 1 | 1 | CAPACITOR-FXD 1200PF +-5%100VDC CER 0+- | 04222 | SA201A122JAAH |
| C22 | 0160-4821 | 1 | 1 | CAPACITOR-FXD 1200PF +-5%100VDC CER 0+- | 04222 | SA201A122JAAH |
| C23 | 0160-4846 | 0 | 1 | CAPACITOR-FXD 1500PF +-5%100VDC CER 0+- | 04222 | SA201A152JAAH |
| C24 | 0160-4846 | 0 | 1 | CAPACITOR-FXD 1500PF +-5%100VDC CER 0+- | 04222 | SA201A152JAAH |
| C25 | 0160-5099 | 7 | 1 | CAPACITOR-FXD 3300PF +-5%100VDC CER 0+- | 04222 | SA301A332JAAH |
| C26 | 0160-5099 | 7 | 1 | CAPACITOR-FXD 3300PF +-5%100VDC CER 0+- | 04222 | SA301A332JAAH |
| C27 | 0160-4825 | 5 | 1 | CAPACITOR-FXD 560PF +-5%100VDC CER 0+-3 | 04222 | SA101A561JAAH |
| C29 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5%100VDC CER 0+- | 04222 | SA201A102JAAH |
| C30 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5%100VDC CER 0+- | 04222 | SA201A102JAAH |
| C31 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5%100VDC CER 0+- | 04222 | SA201A102JAAH |
| C32 | 0160-4846 | 0 | 1 | CAPACITOR-FXD 1500PF +-5%100VDC CER 0+- | 04222 | SA201A152JAAH |
| C33 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5%100VDC CER 0+- | 04222 | SA301A392JAAH |
| C34 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5%100VDC CER 0+- | 04222 | SA301A392JAAH |
| C35 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5%100VDC CER 0+- | 04222 | SA301A392JAAH |
| C36 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5%100VDC CER 0+- | 04222 | SA301A392JAAH |
| C37 | 0160-5100 | 1 | 1 | CAPACITOR-FXD 2700PF +-5%100VDC CER 0+- | 04222 | SA301A272JAAH |
| C38 | 0160-4820 | 0 | 1 | CAPACITOR-FXD 1800PF +-5%100VDC CER 0+- | 04222 | SA301A182JAAH |
| C39 | 0160-4820 | 0 | 1 | CAPACITOR-FXD 1800PF +-5%100VDC CER 0+- | 04222 | SA301A182JAAH |
| C40 | 0160-4810 | 8 | 1 | CAPACITOR-FXD 330PF +-5%100VDC CER 0+-3 | 04222 | SA101A331JAAH |
| C41 | 0160-4810 | 8 | 1 | CAPACITOR-FXD 330PF +-5%100VDC CER 0+-3 | 04222 | SA101A331JAAH |
| C42 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5%100VDC CER 0+- | 04222 | SA301A392JAAH |
| C43 | 0160-4825 | 5 | 1 | CAPACITOR-FXD 560PF +-5%100VDC CER 0+-3 | 04222 | SA101A561JAAH |
| C44 | 0160-0162 | 5 | 1 | CAPACITOR-FXD .022UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C45 | 0160-0162 | 5 | 1 | CAPACITOR-FXD .022UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C46 | 0160-0161 | 4 | 1 | CAPACITOR-FXD .01UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C47 | 0160-4809 | 5 | 1 | CAPACITOR-FXD 390PF +-5%100VDC CER 0+-3 | 04222 | SA101A391JAAH |
| C48 | 0160-4824 | 4 | 1 | CAPACITOR-FXD 680PF +-5%100VDC CER 0+-3 | 04222 | SA101A681JAAH |

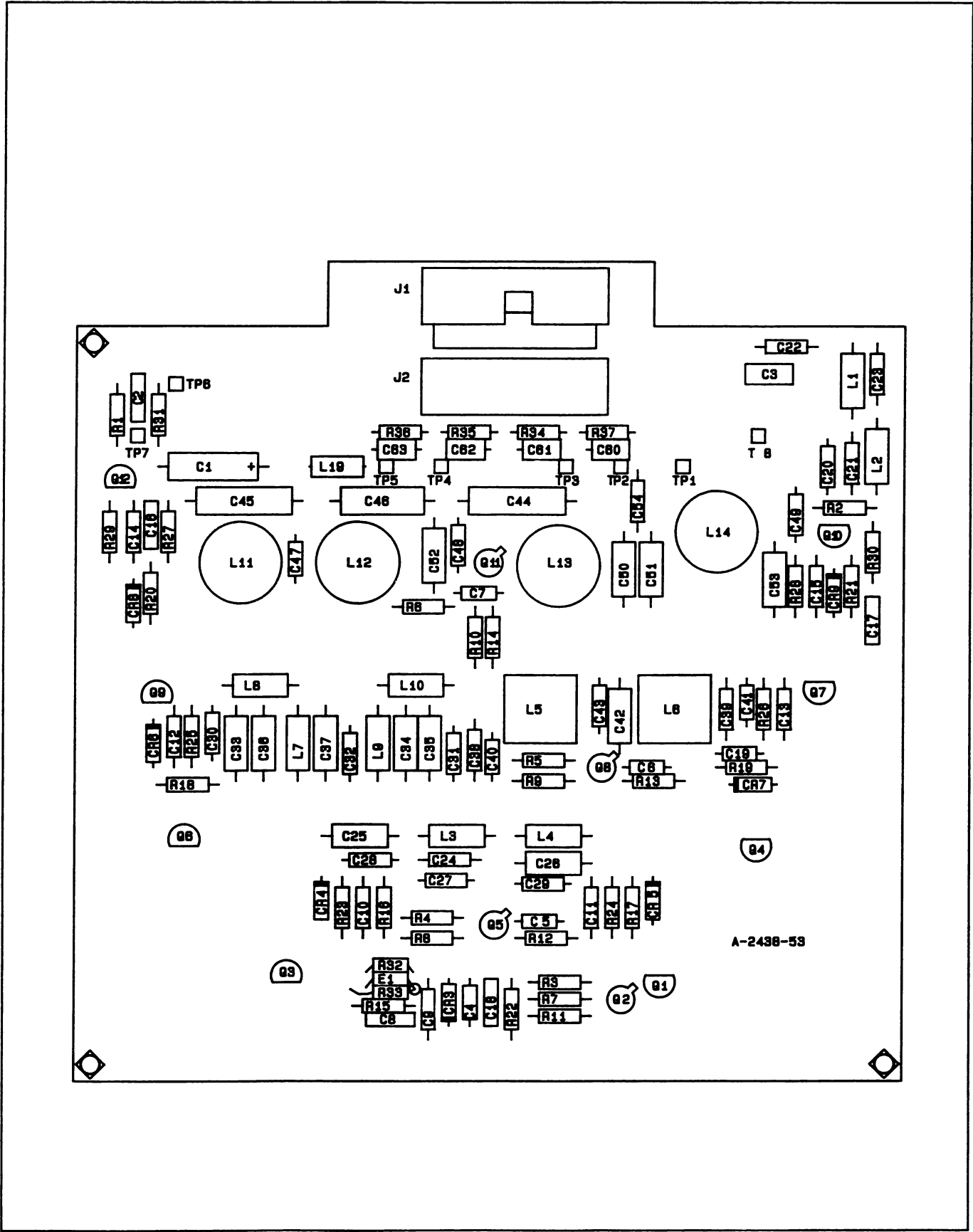
HP Part Number 85685-60097
Fixed Bandpass Filters Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|-----------------|
| C49 | 0160-4824 | 4 | 1 | CAPACITOR-FXD 680PF +-5%100VDC CER 0+-3 | 04222 | SA101A681JAAH |
| C50 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5%100VDC CER 0+- | 04222 | SA301A392JAAH |
| C51 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5%100VDC CER 0+- | 04222 | SA301A392JAAH |
| C53 | 0160-4623 | 1 | 1 | CAPACITOR-FXD 3900PF +-5%100VDC CER 0+- | 04222 | SA301A392JAAH |
| C54 | 0160-4820 | 0 | 1 | CAPACITOR-FXD 1800PF +-5%100VDC CER 0+- | 04222 | SA301A182JAAH |
| C60 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C61 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C62 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C63 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| CR3 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR4 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR5 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR6 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR7 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR8 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| CR9 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA2NS DO-35 | 9N171 | 1N4150 |
| J1 | 1252-0208 | 6 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 1-103166-0 |
| J2 | 1252-0211 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 1-103168-0 |
| L2 | 9100-3560 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6UH+-5% .166D-INX. | 24226 | 15M561J |
| L3 | 9140-0453 | 4 | 1 | INDUCTOR RF-CH-MLD 6.8UH+-5% .166D-INX. | 24226 | 15M-681J |
| L4 | 9140-0453 | 4 | 1 | INDUCTOR RF-CH-MLD 6.8UH+-5% .166D-INX. | 24226 | 15M-681J |
| L5 | 85685-80018 | 9 | 1 | COIL 10UH +-7% | 28480 | 85685-80018 |
| L6 | 85685-80018 | 9 | 1 | COIL 10UH +-7% | 28480 | 85685-80018 |
| L7 | 9100-3560 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6UH+-5% .166D-INX. | 24226 | 15M561J |
| L8 | 9140-0400 | 1 | 1 | INDUCTOR RF-CH-MLD 8.2UH+-5% .166D-INX. | 24226 | 15M821J |
| L9 | 9100-3560 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6UH+-5% .166D-INX. | 24226 | 15M561J |
| L10 | 9140-0400 | 1 | 1 | INDUCTOR RF-CH-MLD 8.2UH+-5% .166D-INX. | 24226 | 15M821J |
| L11 | 85685-80017 | 8 | 1 | COIL 34UH +-6% | 28480 | 85685-80017 |
| L12 | 85685-80017 | 8 | 1 | COIL 34UH +-6% | 28480 | 85685-80017 |
| L13 | 85685-80016 | 7 | 1 | COIL 21UH +-6% | 28480 | 85685-80016 |
| L14 | 85685-80016 | 7 | 1 | COIL 21UH +-6% | 28480 | 85685-80016 |
| L19 | 9100-1641 | 0 | 1 | INDUCTOR RF-CH-MLD 240UH+-5% .166D-INX. | 99800 | 1537-94 |
| MP2 | 1390-0281 | 7 | 1 | FASTENER-SNAP-IN PLGR PANELTHKNS | 83014 | HN5P-53-4-1 |
| MP3 | 1390-0104 | 3 | 1 | FASTENER-SNAP-IN GROM PANELTHKNS | 83014 | HN5G-53-1 |
| MP4 | 3050-1017 | 1 | 1 | WASHER-FL MTLC 5/16 IN.324-IN-ID | 86928 | 5710-79-30 |
| MP5 | 0360-1682 | 0 | 1 | TERMINAL-STUD SGL-TURPRESS-MTG | 88245 | 14758-8 |
| MP6 | 0361-0251 | 9 | 1 | EYELET-FL-FLG .059-OD.102-LG .006-THK | 90201 | SE 23 |
| Q1 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q2 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SITO-18 PD=500MW | 04713 | 2N2222A |
| Q3 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q4 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q6 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q7 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q8 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SITO-18 PD=500MW | 04713 | 2N2222A |
| Q9 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q10 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q11 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SITO-18 PD=500MW | 04713 | 2N2222A |

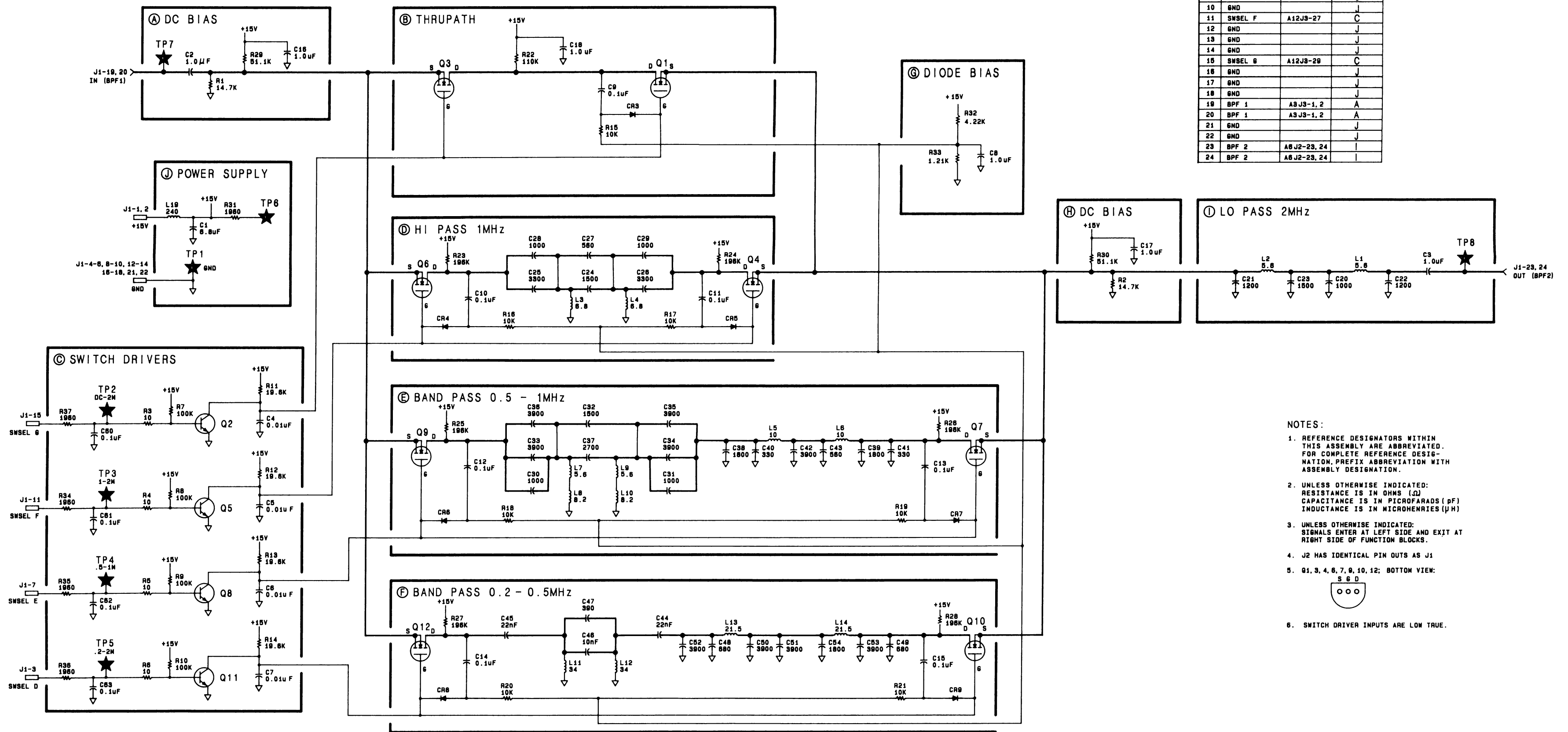
*Indicates factory-selected value

HP Part Number 85685-60097
Fixed Bandpass Filters Assembly


| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|-------------------------------------|----------|-----------------|
| Q12 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| R1 | 0698-3156 | 2 | 1 | RESISTOR 14.7K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R2 | 0698-3156 | 2 | 1 | RESISTOR 14.7K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R3 | 0757-0346 | 2 | 1 | RESISTOR 10 1% .125W TFTC=0+-100 | 91637 | CMF-55-1, T-1 |
| R4 | 0757-0346 | 2 | 1 | RESISTOR 10 1% .125W TFTC=0+-100 | 91637 | CMF-55-1, T-1 |
| R5 | 0757-0346 | 2 | 1 | RESISTOR 10 1% .125W TFTC=0+-100 | 91637 | CMF-55-1, T-1 |
| R6 | 0757-0346 | 2 | 1 | RESISTOR 10 1% .125W TFTC=0+-100 | 91637 | CMF-55-1, T-1 |
| R7 | 0757-0465 | 6 | 1 | RESISTOR 100K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R8 | 0757-0465 | 6 | 1 | RESISTOR 100K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R9 | 0757-0465 | 6 | 1 | RESISTOR 100K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R10 | 0757-0465 | 6 | 1 | RESISTOR 100K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R11 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R12 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R13 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R14 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R15 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R16 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R17 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R18 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R19 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R20 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R21 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R22 | 0757-0466 | 7 | 1 | RESISTOR 110K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R23 | 0698-3453 | 2 | 1 | RESISTOR 196K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R25 | 0698-3453 | 2 | 1 | RESISTOR 196K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R26 | 0698-3453 | 2 | 1 | RESISTOR 196K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R27 | 0698-3453 | 2 | 1 | RESISTOR 196K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R28 | 0698-3453 | 2 | 1 | RESISTOR 196K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R29 | 0757-0458 | 7 | 1 | RESISTOR 51.1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R30 | 0757-0458 | 7 | 1 | RESISTOR 51.1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R31 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R32 | 0698-3154 | 0 | 1 | RESISTOR 4.22K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R33 | 0757-0274 | 5 | 1 | RESISTOR 1.21K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R34 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R35 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R36 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R37 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| TP1 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP2 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP3 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP4 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP5 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP6 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP8 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |



FIXED BANDPASS FILTERS, COMPONENT LOCATIONS: 85685-60097



| J1, J2 (SEE NOTE 4) | | | |
|---------------------|---------|-------------|----------------|
| PIN | SIGNAL | TO/FROM | FUNCTION BLOCK |
| 1 | +15V | | J |
| 2 | +15V | | J |
| 3 | SWSEL D | A12J3-25 | C |
| 4 | GND | | J |
| 5 | GND | | J |
| 6 | GND | | J |
| 7 | SWSEL E | A12J3-26 | C |
| 8 | GND | | J |
| 9 | GND | | J |
| 10 | GND | | J |
| 11 | SWSEL F | A12J3-27 | C |
| 12 | GND | | J |
| 13 | GND | | J |
| 14 | GND | | J |
| 15 | SWSEL G | A12J3-28 | C |
| 16 | GND | | J |
| 17 | GND | | J |
| 18 | GND | | J |
| 19 | BPF 1 | A3J3-1, 2 | A |
| 20 | BPF 1 | A3J3-1, 2 | A |
| 21 | GND | | J |
| 22 | GND | | J |
| 23 | BPF 2 | A8J2-23, 24 | I |
| 24 | BPF 2 | A8J2-23, 24 | I |

- NOTES:
- REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
 - UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω); CAPACITANCE IS IN PICOFARADS (pF); INDUCTANCE IS IN MICROHENRIES (μ H).
 - UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.
 - J2 HAS IDENTICAL PIN OUTS AS J1.
 - Q1, 3, 4, 6, 7, 9, 10, 12: BOTTOM VIEW:

 - SWITCH DRIVER INPUTS ARE LOW TRUE.



Component-Level Information Packet

for 85685-60098

RF Amplifier Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90058

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



**HEWLETT
PACKARD**

HP Part Number 85685-60098
RF Amplifier Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|--------------------|
| C1 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10% 50VDC CER | 04222 | SA405C224KAAH |
| C2 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10% 50VDC CER | 04222 | SA405C224KAAH |
| C3 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10% 50VDC CER | 04222 | SA405C224KAAH |
| C4 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C5 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C6 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C7 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C8 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C9 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C10 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C11 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C12 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C13 | 0160-4797 | 0 | 1 | CAPACITOR-FXD 3.3PF +- .25PF 100VDC CER 0 | 04222 | MA101A3R3CAA |
| C14 | 0160-4797 | 0 | 1 | CAPACITOR-FXD 3.3PF +- .25PF 100VDC CER 0 | 04222 | MA101A3R3CAA |
| C15 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C16 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C17 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C18 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C19 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C20 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C21 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C22 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C23 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C24 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C25 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C26 | 0160-4797 | 0 | 1 | CAPACITOR-FXD 3.3PF +- .25PF 100VDC CER 0 | 04222 | MA101A3R3CAA |
| C28 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C29 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C30 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C31 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C32 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C34 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C35 | 0160-4846 | 0 | 1 | CAPACITOR-FXD 1500PF +-5% 100VDC CER 0+- | 04222 | SA201A152JAAH |
| C36 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C37 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C38 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C39 | 0160-4554 | 7 | 1 | CAP-FXD 0.01uF 50 V | 04222 | SA105C103MAAH |
| C40 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C41 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C42 | 0180-0116 | 1 | 1 | CAPACITOR-FXD 6.8UF+-10% 35VDC TA | 56289 | 150D685X9035B2-DYS |
| C43 | 0180-0228 | 6 | 1 | CAPACITOR-FXD 22UF+-10% 15VDC TA | 56289 | 150D226X9015B2-DYS |
| C44 | 0180-0228 | 6 | 1 | CAPACITOR-FXD 22UF+-10% 15VDC TA | 56289 | 150D226X9015B2-DYS |
| C45 | 0180-0116 | 1 | 1 | CAPACITOR-FXD 6.8UF+-10% 35VDC TA | 56289 | 150D685X9035B2-DYS |
| C46 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C47 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C48 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C49 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10% 50VDC CER | 04222 | SA405C224KAAH |
| C50 | 0160-4846 | 0 | 1 | CAPACITOR-FXD 1500PF +-5% 100VDC CER 0+- | 04222 | SA201A152JAAH |

HP Part Number 85685-60098
RF Amplifier Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| C51 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C52 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| CR1 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR2 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR4 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR5 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR6 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR7 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR8 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR9 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| J1 | 1250-1611 | 3 | 1 | CONNECTOR-RF SMB M PC 50-OHM | 98291 | 51-051-0289 |
| J2 | 1252-0208 | 6 | 1 | CONN-POST TYPE .100-PIN-SPCG 24-CONT | 00779 | 1-103166-0 |
| J3 | 1252-0211 | 1 | 1 | CONN-POST TYPE .100-PIN-SPCG 24-CONT | 00779 | 1-103168-0 |
| J4 | 1250-1611 | 3 | 1 | CONNECTOR-RF SMB M PC 50-OHM | 98291 | 51-051-0289 |
| J5 | 1250-1611 | 3 | 1 | CONNECTOR-RF SMB M PC 50-OHM | 98291 | 51-051-0289 |
| L1 | 9100-1645 | 4 | 1 | INDUCTOR RF-CH-MLD 390UH +-5% .2D-INX.45 | 99800 | 2500-08 |
| L2 | 9100-1671 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6MH +-5% .25D-INX.7 | 99800 | 2500-64 |
| L3 | 9100-1671 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6MH +-5% .25D-INX.7 | 99800 | 2500-64 |
| L4 | 9140-0450 | 1 | 1 | INDUCTOR RF-CH-MLD 270NH +-5% .166D-INX. | 24226 | 15M270J |
| L5 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L6 | 9100-1671 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6MH +-5% .25D-INX.7 | 99800 | 2500-64 |
| L7 | 9100-1671 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6MH +-5% .25D-INX.7 | 99800 | 2500-64 |
| L9 | 9100-1628 | 3 | 1 | INDUCTOR RF-CH-MLD 43UH +-5% .166D-INX.3 | 99800 | 1537-58 |
| L11 | 9100-3560 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6UH +-5% .166D-INX. | 24226 | 15M561J |
| L12 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L13 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L14 | 9100-1622 | 7 | 1 | INDUCTOR RF-CH-MLD 24UH +-5% .166D-INX.3 | 99800 | 1537-46 |
| L15 | 9100-1622 | 7 | 1 | INDUCTOR RF-CH-MLD 24UH +-5% .166D-INX.3 | 99800 | 1537-46 |
| L16 | 9100-1622 | 7 | 1 | INDUCTOR RF-CH-MLD 24UH +-5% .166D-INX.3 | 99800 | 1537-46 |
| L17 | 9100-1641 | 0 | 1 | INDUCTOR RF-CH-MLD 240UH +-5% .166D-INX. | 99800 | 1537-94 |
| L18 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L19 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L20 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH +-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L21 | 9140-0450 | 1 | 1 | INDUCTOR RF-CH-MLD 270NH +-5% .166D-INX. | 24226 | 15M270J |
| MP2 | 1390-0281 | 7 | 1 | FASTENER-SNAP-IN PLGR PANEL THKNS | 83014 | HN5P-53-4-1 |
| MP3 | 1390-0104 | 3 | 1 | FASTENER-SNAP-IN GROM PANEL THKNS | 83014 | HN5G-53-1 |
| MP4 | 3050-1017 | 1 | 1 | WASHER-FL MTLC 5/16 IN .324-IN-ID | 86928 | 5710-79-30 |
| MP5 | 1205-0095 | 0 | 1 | HEAT SINK SGL TO-5/TO-39-CS | 13103 | 2225B |
| MP6 | 1200-0173 | 5 | 1 | INSULATOR-XSTR DAP-GL | 07047 | A-10001 DAP |
| Q1 | 1854-0378 | 7 | 1 | TRANSISTOR NPN 2N5109 SI TO-39 PD=800MW | 04713 | 2N5109 |
| Q2 | 1855-0423 | 5 | 1 | TRANSISTOR MOSFET N-CHAN E-MODE TO-237 S | 17856 | VN10KM |
| Q3 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q4 | 1855-0292 | 6 | 1 | TRANSISTOR J-FET 2N5432 N-CHAN D-MODE TO | 27014 | 2N5432 |
| Q5 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHAN E-MODE SI | 17856 | VN0300M |
| Q6 | 1854-0378 | 7 | 1 | TRANSISTOR NPN 2N5109 SI TO-39 PD=800MW | 04713 | 2N5109 |
| Q7 | 1853-0281 | 9 | 1 | TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW | 04713 | 2N2907A |
| Q8 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |

**Indicates factory-selected value*

HP Part Number 85685-60098
RF Amplifier Assembly

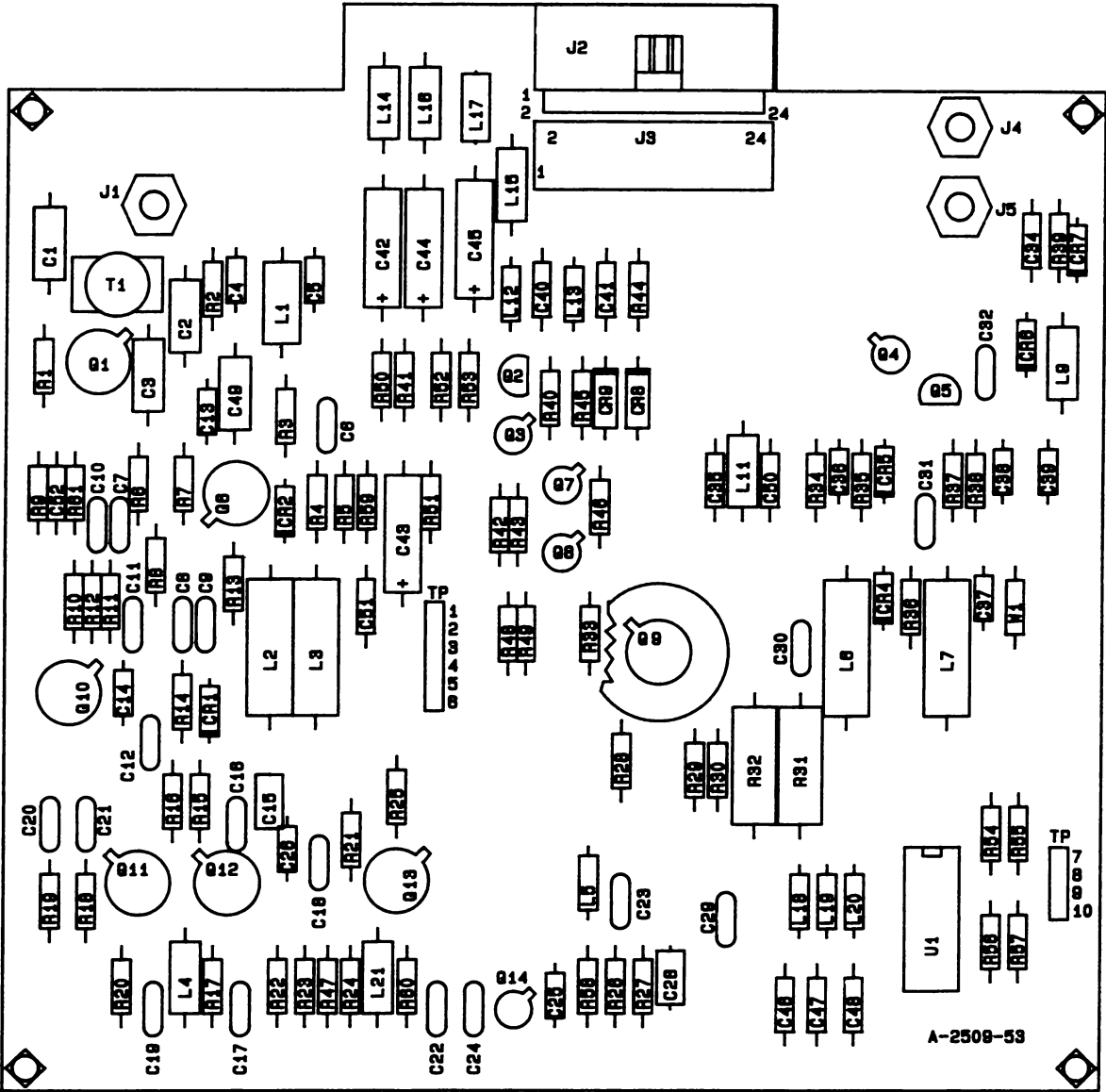
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| Q9 | 1854-0378 | 7 | 1 | TRANSISTOR NPN 2N5109 SI TO-39 PD=800MW | 04713 | 2N5109 |
| Q10 | 1854-0378 | 7 | 1 | TRANSISTOR NPN 2N5109 SI TO-39 PD=800MW | 04713 | 2N5109 |
| Q11 | 1854-0378 | 7 | 1 | TRANSISTOR NPN 2N5109 SI TO-39 PD=800MW | 04713 | 2N5109 |
| Q12 | 1854-0378 | 7 | 1 | TRANSISTOR NPN 2N5109 SI TO-39 PD=800MW | 04713 | 2N5109 |
| Q13 | 1854-0378 | 7 | 1 | TRANSISTOR NPN 2N5109 SI TO-39 PD=800MW | 04713 | 2N5109 |
| Q14 | 1855-0420 | 2 | 1 | TRANSISTOR J-FET 2N4391 N-CHAN D-MODE TO | 17856 | 2N4391 |
| R1 | 0757-0421 | 4 | 1 | RESISTOR 825 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R2 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R3 | 0757-0400 | 9 | 1 | RESISTOR 90.9 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R4 | 0757-0290 | 5 | 1 | RESISTOR 6.19K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R5 | 0698-0085 | 0 | 1 | RESISTOR 2.61K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R6 | 0757-0401 | 0 | 1 | RESISTOR 100 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R7 | 0698-3440 | 7 | 1 | RESISTOR 196 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R8 | 0757-0382 | 6 | 1 | RESISTOR 16.2 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R9 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R10 | 0757-0424 | 7 | 1 | RESISTOR 1.1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R11 | 0757-0394 | 0 | 1 | RESISTOR 51.1 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R12 | 0757-0394 | 0 | 1 | RESISTOR 51.1 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R13 | 0698-3443 | 0 | 1 | RESISTOR 287 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R14 | 0698-3432 | 7 | 1 | RESISTOR 26.1 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R15 | 0757-0417 | 8 | 1 | RESISTOR 562 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R16 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R17 | 0757-0403 | 2 | 1 | RESISTOR 121 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R18 | 0757-0394 | 0 | 1 | RESISTOR 51.1 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R19 | 0698-3427 | 0 | 1 | RESISTOR 13.3 1% .125W TF TC=0+-100 | 91637 | CMF-55-1, T-1 |
| R20 | 0757-0416 | 7 | 1 | RESISTOR 511 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R21 | 0698-3429 | 2 | 1 | RESISTOR 19.6 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R22 | 0757-0279 | 0 | 1 | RESISTOR 3.16K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R23 | 0757-0418 | 9 | 1 | RESISTOR 619 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R24 | 0757-0403 | 2 | 1 | RESISTOR 121 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R25 | 0757-0394 | 0 | 1 | RESISTOR 51.1 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R26 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R27 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R28 | 0698-3429 | 2 | 1 | RESISTOR 19.6 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R29 | 0698-0085 | 0 | 1 | RESISTOR 2.61K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R30 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R31 | 0757-1000 | 7 | 1 | RESISTOR 51.1 1% .5W TF TC=0+-100 | 19701 | 5053R |
| R32 | 0757-1000 | 7 | 1 | RESISTOR 51.1 1% .5W TF TC=0+-100 | 19701 | 5053R |
| R33 | 0698-3429 | 2 | 1 | RESISTOR 19.6 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R34 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R35 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R36 | 0698-3432 | 7 | 1 | RESISTOR 26.1 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R37 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R38 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R39 | 0698-3132 | 4 | 1 | RESISTOR 261 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R40 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R41 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R42 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |

**Indicates factory-selected value*

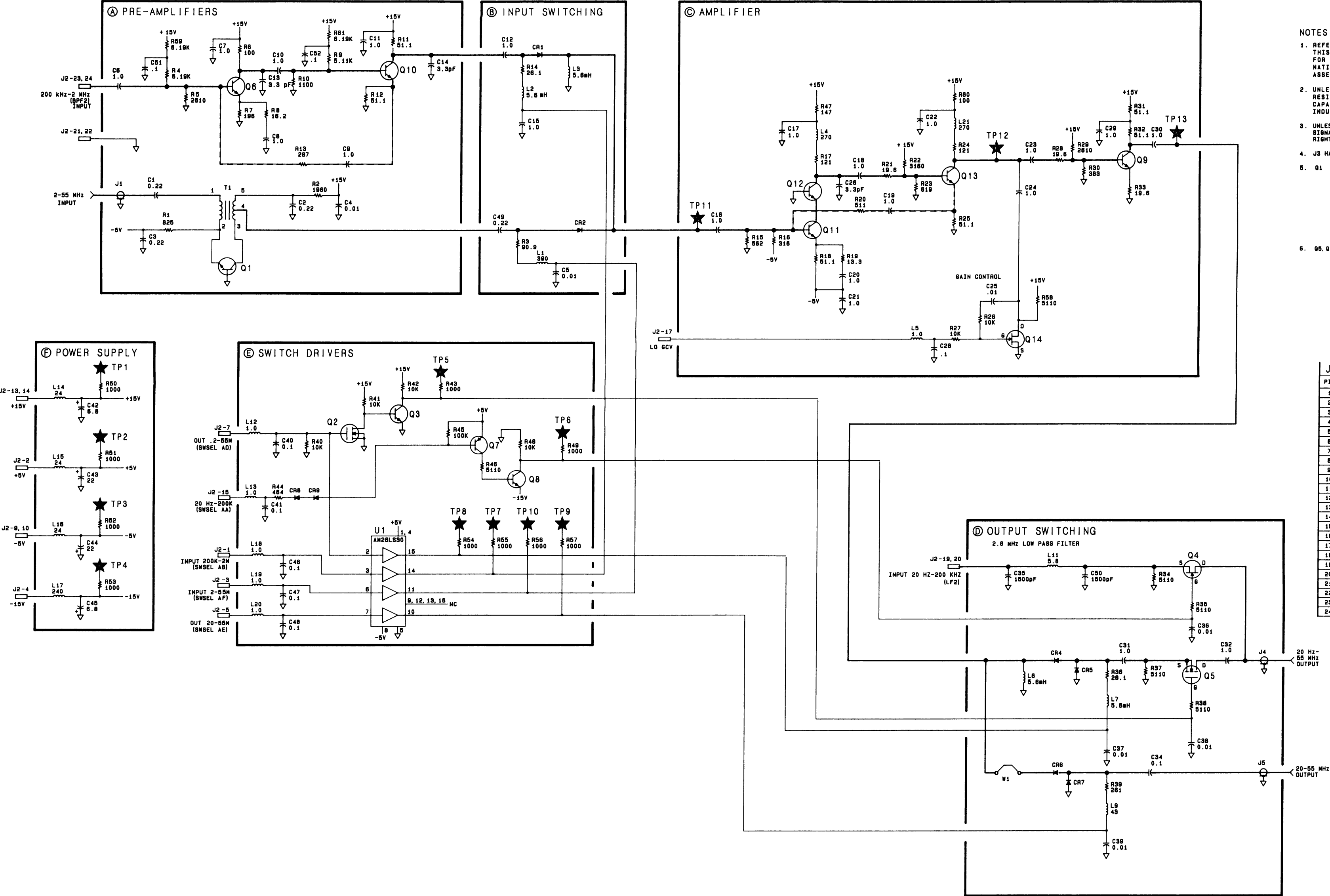
HP Part Number 85685-60098
RF Amplifier Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--------------------------------------|----------|-----------------|
| R43 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R44 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R45 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R46 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R47 | 0698-3438 | 3 | 1 | RESISTOR 147 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R48 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R49 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R50 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R51 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R52 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R53 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R54 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R55 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R56 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R57 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R58 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R59 | 0757-0290 | 5 | 1 | RESISTOR 6.19K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R60 | 0757-0401 | 0 | 1 | RESISTOR 100 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R61 | 0757-0290 | 5 | 1 | RESISTOR 6.19K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| T1 | 9100-4462 | 9 | 1 | ER DIVISION | | |
| TP1 | 1252-0098 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 6-CONT | 18873 | 68001-606 |
| TP2 | 1252-0098 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 6-CONT | 18873 | 68001-606 |
| TP3 | 1252-0098 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 6-CONT | 18873 | 68001-606 |
| TP4 | 1252-0098 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 6-CONT | 18873 | 68001-606 |
| TP5 | 1252-0098 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 6-CONT | 18873 | 68001-606 |
| TP6 | 1252-0098 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 6-CONT | 18873 | 68001-606 |
| TP7 | 1251-5619 | 1 | 1 | CONN-POST TYPE .100-PIN-SPCG 4-CONT | 18873 | 68000-604 |
| TP8 | 1251-5619 | 1 | 1 | CONN-POST TYPE .100-PIN-SPCG 4-CONT | 18873 | 68000-604 |
| TP9 | 1251-5619 | 1 | 1 | CONN-POST TYPE .100-PIN-SPCG 4-CONT | 18873 | 68000-604 |
| TP10 | 1251-5619 | 1 | 1 | CONN-POST TYPE .100-PIN-SPCG 4-CONT | 18873 | 68000-604 |
| U1 | 1820-3755 | 9 | 1 | IC-INTERFACE DRVR BCD-TO-BIN | 34335 | AM26LS30DC |
| W1 | 8159-0005 | 0 | 1 | RESISTOR-ZERO OHMS 22 AWG LEAD DIA | 55210 | L-2007-1 |

RF AMPLIFIER
85685-60098



RF AMPLIFIER, COMPONENT LOCATIONS: 85685-60098



- NOTES:
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
 2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω) CAPACITANCE IS IN MICROFARADS (μF) INDUCTANCE IS IN MICROHENRIES (μH)
 3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.
 4. J3 HAS IDENTICAL PIN OUTS AS J2.
 5. Q1
 6. Q5, Q2
- EMITTER
- BASE
- COLLECTOR (LONG LEAD)
- EMITTER
- BOTTOM VIEW
- GATE
- SOURCE
- DRAIN

J2, J3 (SEE NOTE 4)

| PIN | SIGNAL | TO/FROM | FUNCTION BLOCK |
|-----|----------|-------------|----------------|
| 1 | SWSEL AB | A12J3-6 | E |
| 2 | +5V | A12J3-7 | F |
| 3 | SWSEL AF | A12J3-7 | E |
| 4 | -15V | A12J3-8 | F |
| 5 | SWSEL AE | A12J3-8 | E |
| 6 | GND | | |
| 7 | SWSEL AD | A12J3-11 | E |
| 8 | GND | | |
| 9 | -5V | | F |
| 10 | -5V | | F |
| 11 | GND | | |
| 12 | GND | | |
| 13 | +15V | | F |
| 14 | +15V | | F |
| 15 | SWSEL AA | A12J3-12 | E |
| 16 | GND | | |
| 17 | LOW 6CV | A12J2-24 | C |
| 18 | GND | | |
| 19 | LF2 | A5J1-1, 2 | D |
| 20 | LF2 | A5J1-1, 2 | D |
| 21 | GND | | A |
| 22 | GND | | A |
| 23 | BPF2 | A4J1-23, 24 | A |
| 24 | BPF2 | A4J1-23, 24 | A |



Component-Level Information Packet

for 85685-60106

DAC Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90065

Printed October 1989

Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



HP Part Number 85685-60106
DAC Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|--------------------|
| C1 | 0180-0229 | 7 | 1 | CAPACITOR-FXD 33UF+-10% 10VDC TA | 56289 | 150D336X9010B2-DYS |
| C2 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C3 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C4 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C5 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C6 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C7 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C8 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C9 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C10 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C11 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C12 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C13 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C14 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C15 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C16 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C17 | 0180-2697 | 7 | 1 | CAPACITOR-FXD 10UF+-10% 25VDC TA | 56289 | 199D1141 |
| C18 | 0180-2697 | 7 | 1 | CAPACITOR-FXD 10UF+-10% 25VDC TA | 56289 | 199D1141 |
| C19 | 0160-4808 | 4 | 1 | CAPACITOR-FXD 470PF +-5% 100VDC CER 0+-3 | 04222 | SA101A471JAAH |
| C20 | 0160-4808 | 4 | 1 | CAPACITOR-FXD 470PF +-5% 100VDC CER 0+-3 | 04222 | SA101A471JAAH |
| C21 | 0160-4808 | 4 | 1 | CAPACITOR-FXD 470PF +-5% 100VDC CER 0+-3 | 04222 | SA101A471JAAH |
| C22 | 0160-4808 | 4 | 1 | CAPACITOR-FXD 470PF +-5% 100VDC CER 0+-3 | 04222 | SA101A471JAAH |
| C23 | 0160-4808 | 4 | 1 | CAPACITOR-FXD 470PF +-5% 100VDC CER 0+-3 | 04222 | SA101A471JAAH |
| C24 | 0160-4808 | 4 | 1 | CAPACITOR-FXD 470PF +-5% 100VDC CER 0+-3 | 04222 | SA101A471JAAH |
| C25 | 0160-4804 | 0 | 1 | CAPACITOR-FXD 56PF +-5% 100VDC CER 0+-30 | 04222 | SA102A560JAAH |
| C26 | 0160-4804 | 0 | 1 | CAPACITOR-FXD 56PF +-5% 100VDC CER 0+-30 | 04222 | SA102A560JAAH |
| C27 | 0160-4804 | 0 | 1 | CAPACITOR-FXD 56PF +-5% 100VDC CER 0+-30 | 04222 | SA102A560JAAH |
| C28 | 0160-4804 | 0 | 1 | CAPACITOR-FXD 56PF +-5% 100VDC CER 0+-30 | 04222 | SA102A560JAAH |
| C29 | 0160-4804 | 0 | 1 | CAPACITOR-FXD 56PF +-5% 100VDC CER 0+-30 | 04222 | SA102A560JAAH |
| C30 | 0160-4804 | 0 | 1 | CAPACITOR-FXD 56PF +-5% 100VDC CER 0+-30 | 04222 | SA102A560JAAH |
| C31 | 0160-4800 | 6 | 1 | CAPACITOR-FXD 120PF +-5% 100VDC CER 0+-3 | 04222 | SA102A121JAAH |
| C32 | 0160-4813 | 1 | 1 | CAPACITOR-FXD 180PF +-5% 100VDC CER 0+-3 | 04222 | SA101A181JAAH |
| C33 | 0160-4814 | 2 | 1 | CAPACITOR-FXD 150PF +-5% 100VDC CER 0+-3 | 04222 | SA101A151JAAH |
| C34 | 0160-4814 | 2 | 1 | CAPACITOR-FXD 150PF +-5% 100VDC CER 0+-3 | 04222 | SA101A151JAAH |
| C35 | 0160-4812 | 0 | 1 | CAPACITOR-FXD 220PF +-5% 100VDC CER 0+-3 | 04222 | SA101A221JAAH |
| C36 | 0160-4812 | 0 | 1 | CAPACITOR-FXD 220PF +-5% 100VDC CER 0+-3 | 04222 | SA101A221JAAH |
| C37 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C38 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C39 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C40 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C41 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C42 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10% 100VDC CER | 04222 | SA101C103KAAH |
| C43 | 0180-2697 | 7 | 1 | CAPACITOR-FXD 10UF+-10% 25VDC TA | 56289 | 199D1141 |
| C44 | 0180-2697 | 7 | 1 | CAPACITOR-FXD 10UF+-10% 25VDC TA | 56289 | 199D1141 |
| C45 | 0160-4812 | 0 | 1 | CAPACITOR-FXD 220PF +-5% 100VDC CER 0+-3 | 04222 | SA101A221JAAH |
| C46 | 0160-4812 | 0 | 1 | CAPACITOR-FXD 220PF +-5% 100VDC CER 0+-3 | 04222 | SA101A221JAAH |
| C47 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C48 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |

**Indicates factory-selected value*

HP Part Number 85685-60106
DAC Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|-------------------------------------|----------|-----------------|
| C49 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C50 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C51 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C52 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10% 50VDC CER | 28480 | 0160-4535 |
| C53 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C54 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C55 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C56 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C57 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C58 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C59 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C60 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C61 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C62 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C63 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C64 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C65 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C66 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C67 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C68 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C69 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C70 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C71 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C72 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C73 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C74 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C75 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C76 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C77 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C78 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C79 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C80 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C81 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C82 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C83 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C84 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C85 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C86 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C87 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C88 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C89 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C90 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C91 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C92 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C93 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C94 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C95 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |

HP Part Number 85685-60106
DAC Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--------------------------------------|----------|--------------------|
| C96 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C97 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C98 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C99 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C100 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C101 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C102 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C103 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C104 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C105 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C106 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C107 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C108 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C109 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C110 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C111 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C112 | 0180-2141 | 6 | 1 | CAPACITOR-FXD 3.3UF+-10% 50VDC TA | 56289 | 150D335X9050B2-DYS |
| CR1 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR2 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR3 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR4 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR5 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR6 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR7 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR8 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR9 | 1901-0956 | 8 | 1 | DIODE-CUR RGLTR 1N5306 2.2MA DO-7 | 28480 | 1901-0956 |
| CR10 | 1901-0956 | 8 | 1 | DIODE-CUR RGLTR 1N5306 2.2MA DO-7 | 28480 | 1901-0956 |
| CR11 | 1901-0956 | 8 | 1 | DIODE-CUR RGLTR 1N5306 2.2MA DO-7 | 28480 | 1901-0956 |
| CR12 | 1901-0956 | 8 | 1 | DIODE-CUR RGLTR 1N5306 2.2MA DO-7 | 28480 | 1901-0956 |
| CR13 | 1901-0956 | 8 | 1 | DIODE-CUR RGLTR 1N5306 2.2MA DO-7 | 28480 | 1901-0956 |
| CR14 | 1901-0956 | 8 | 1 | DIODE-CUR RGLTR 1N5306 2.2MA DO-7 | 28480 | 1901-0956 |
| CR15 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR16 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR17 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR18 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR19 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR20 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR21 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR22 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR23 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR24 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MA DO-35 | 9N171 | 1N645 |
| CR25 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA DO-29 | 28480 | 1901-0028 |
| CR26 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA DO-29 | 28480 | 1901-0028 |
| CR27 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR28 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR29 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| CR30 | 1901-0050 | 3 | 1 | DIODE-SWITCHING 80V 200MA 2NS DO-35 | 9N171 | 1N4150 |
| J1 | 1251-7166 | 7 | 1 | CONN-POST TYPE .100-PIN-SPCG 34-CONT | 76381 | 3431-1203 |

HP Part Number 85685-60106
DAC Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| J2 | 1251-5511 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 50-CONT | 76381 | 3433-1203 |
| J3 | 1251-5511 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 50-CONT | 76381 | 3433-1203 |
| J4 | 1250-0257 | 1 | 1 | CONNECTOR-RF SMB M PC 50-OHM | 98291 | 51-051-0169-226 |
| J5 | 1250-0257 | 1 | 1 | CONNECTOR-RF SMB M PC 50-OHM | 98291 | 51-051-0169-226 |
| L1 | 9100-1788 | 6 | 1 | CORE-FERRITE CHOKE-WIDEBAND IMP:680 | 02114 | VK200 20/4B |
| MP2 | 1205-0095 | 0 | 1 | HEAT SINK SGL TO-5/TO-39-CS | 13103 | 2225B |
| MP3 | 1200-0173 | 5 | 1 | INSULATOR-XSTR DAP-GL | 07047 | A-10001 DAP |
| MP4 | 0590-1625 | 8 | 1 | THREADED INSERT-NUT M2 X 0.4 1.5-MM-LG | 46384 | KFS2-M2 |
| MP6 | 8151-0013 | 4 | 1 | WIRE 22AWG 1X22 | 92194 | 298 |
| MP7 | 1251-5177 | 6 | 1 | CONNECTOR-SGL CONT PIN .031-IN-BSC-SZ | 28480 | 1251-5177 |
| MP8 | 0890-0324 | 8 | 1 | TUBING-FLEX .032-ID TFE .012-WALL | 09795 | II-TW,FR-1 |
| Q1 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q2 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q3 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q4 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q5 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q6 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q7 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q8 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q9 | 1854-0523 | 4 | 1 | TRANSISTOR NPN SI TO-39 PD=1W FT=150MHZ | 28480 | 1854-0523 |
| Q10 | 1854-0907 | 8 | 1 | TRANSISTOR NPN 2N2484 TO-18 PD=360MW | 28480 | 1854-0907 |
| Q11 | 1854-0907 | 8 | 1 | TRANSISTOR NPN 2N2484 TO-18 PD=360MW | 28480 | 1854-0907 |
| Q12 | 1854-0907 | 8 | 1 | TRANSISTOR NPN 2N2484 TO-18 PD=360MW | 28480 | 1854-0907 |
| Q13 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q14 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q15 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q16 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q17 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q18 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q19 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q20 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q21 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q22 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q23 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q24 | 1855-0251 | 7 | 1 | TRANSISTOR MOSFET N-CHAN E-MODE TO-39 SI | 28480 | 1855-0251 |
| Q25 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q26 | 1854-0637 | 1 | 1 | TRANSISTOR NPN 2N2219A SI TO-5 PD=800MW | 04713 | 2N2219A |
| R1 | 0698-6360 | 6 | 1 | RESISTOR 10K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R2 | 0698-6360 | 6 | 1 | RESISTOR 10K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R3 | 0698-6360 | 6 | 1 | RESISTOR 10K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R4 | 0698-8046 | 9 | 1 | RESISTOR 16K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R5 | 0698-8046 | 9 | 1 | RESISTOR 16K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R6 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R7 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R8 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R9 | 0757-0447 | 4 | 1 | RESISTOR 16.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R10 | 0757-0447 | 4 | 1 | RESISTOR 16.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |

HP Part Number 85685-60106
DAC Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|-----------------|
| R11 | 0698-6348 | 0 | 1 | RESISTOR 3K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R12 | 0698-6322 | 0 | 1 | RESISTOR 4K .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R13 | 0698-6322 | 0 | 1 | RESISTOR 4K .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R14 | 0698-6322 | 0 | 1 | RESISTOR 4K .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R15 | 0698-6322 | 0 | 1 | RESISTOR 4K .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R16 | 0698-6322 | 0 | 1 | RESISTOR 4K .1% .125W TF TC=0+-25 | 91637 | CMF-55-1, T-9 |
| R17 | 0698-8865 | 0 | 1 | RESISTOR 4.45K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R18 | 2100-3212 | 8 | 1 | RESISTOR-TRMR 200 10% TKF TOP-ADJ 1-TRN | 32997 | 3386P-Y46-201 |
| R19 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R20 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R21 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R22 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R23 | 0757-0401 | 0 | 1 | RESISTOR 100 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R24 | 0757-0401 | 0 | 1 | RESISTOR 100 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R25 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R26 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R27 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R28 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R29 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R30 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R31 | 0698-8859 | 2 | 1 | RESISTOR 12K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R32 | 0698-8859 | 2 | 1 | RESISTOR 12K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R33 | 0698-8859 | 2 | 1 | RESISTOR 12K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R34 | 0698-8861 | 6 | 1 | RESISTOR 6.66K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R35 | 0698-8861 | 6 | 1 | RESISTOR 6.66K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R36 | 0698-8861 | 6 | 1 | RESISTOR 6.66K .1% .125W TF TC=0+-25 | 19701 | 5033R |
| R38 | 0757-0447 | 4 | 1 | RESISTOR 16.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R39 | 0757-0447 | 4 | 1 | RESISTOR 16.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R40 | 0757-0447 | 4 | 1 | RESISTOR 16.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R41 | 0757-0447 | 4 | 1 | RESISTOR 16.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R42 | 0757-0447 | 4 | 1 | RESISTOR 16.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R43 | 0757-0447 | 4 | 1 | RESISTOR 16.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R44 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R45 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R46 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R47 | 0698-3156 | 2 | 1 | RESISTOR 14.7K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R48 | 0698-3156 | 2 | 1 | RESISTOR 14.7K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R49 | 0698-3156 | 2 | 1 | RESISTOR 14.7K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R50 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R51 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R52 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R53 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R54 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R55 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R56 | 0757-0463 | 4 | 1 | RESISTOR 82.5K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R57 | 0757-0463 | 4 | 1 | RESISTOR 82.5K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R58 | 0757-0463 | 4 | 1 | RESISTOR 82.5K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R59 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |

*Indicates factory-selected value

HP Part Number 85685-60106
DAC Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--------------------------------------|----------|-----------------|
| R60 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R61 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R62 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R63 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R64 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R65 | 0698-3450 | 9 | 1 | RESISTOR 42.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R66 | 0698-3450 | 9 | 1 | RESISTOR 42.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R67 | 0698-3450 | 9 | 1 | RESISTOR 42.2K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R68 | 0698-3440 | 7 | 1 | RESISTOR 196 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R69 | 0698-3440 | 7 | 1 | RESISTOR 196 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R70 | 0698-3440 | 7 | 1 | RESISTOR 196 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R71 | 0698-3434 | 9 | 1 | RESISTOR 34.8 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R72 | 0698-3434 | 9 | 1 | RESISTOR 34.8 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R73 | 0698-3434 | 9 | 1 | RESISTOR 34.8 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R74 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R75 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R76 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R77 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R78 | 0757-0416 | 7 | 1 | RESISTOR 511 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R79 | 0757-0416 | 7 | 1 | RESISTOR 511 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R80 | 0698-8958 | 2 | 1 | RESISTOR 511K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R81 | 0698-8958 | 2 | 1 | RESISTOR 511K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R82 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R83 | 0811-3308 | 8 | 1 | RESISTOR 75 1% 7.5W PW TC=0+-10 | 91637 | NH5 |
| R84 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R85 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R86 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R87 | 0698-3449 | 6 | 1 | RESISTOR 28.7K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R88 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R89 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R90 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R91 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R92 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R93 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R94 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R95 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R96 | 0698-3154 | 0 | 1 | RESISTOR 4.22K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R97 | 0698-3154 | 0 | 1 | RESISTOR 4.22K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R98 | 0698-3154 | 0 | 1 | RESISTOR 4.22K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R99 | 0698-3154 | 0 | 1 | RESISTOR 4.22K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R100 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R101 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R102 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R103 | 0698-0084 | 9 | 1 | RESISTOR 2.15K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R104 | 0698-8827 | 4 | 1 | RESISTOR 1M 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R105 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R106 | 0698-3161 | 9 | 1 | RESISTOR 38.3K 1% .125W TF TC=0+-100 | 19701 | SFR25H |

**Indicates factory-selected value*

HP Part Number 85685-60106
DAC Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|--------|-----|--|----------|-----------------|
| R107 | 0757-0274 | 5 | 1 | RESISTOR 1.21K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R108 | 0757-0467 | 8 | 1 | RESISTOR 121K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R109 | 0757-0467 | 8 | 1 | RESISTOR 121K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R110 | 0757-0467 | 8 | 1 | RESISTOR 121K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| TP1 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330IN ABOVE | 28480 | 0360-0535 |
| TP2 | 1252-0098 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 6-CONT | 18873 | 68001-606 |
| TP3 | 1251-5033 | 3 | 1 | CONN-POST TYPE .100-PIN-SPCG 3-CONT | 18873 | 68001-603 |
| TP4 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330IN ABOVE | 28480 | 0360-0535 |
| TP5 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330IN ABOVE | 28480 | 0360-0535 |
| TP6 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330IN ABOVE | 28480 | 0360-0535 |
| TP7 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330IN ABOVE | 28480 | 0360-0535 |
| TP8 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330IN ABOVE | 28480 | 0360-0535 |
| U1 | 1820-1216 | 3 | 1 | IC DCDR TTL LS 3-TO-8-LINE 3-INP | 01295 | SN74LS138N |
| U2 | 1820-1729 | 3 | 1 | IC LCH TTL LS COM CLEAR 8-BIT | 04713 | SN74LS259N |
| U3 | 1820-1729 | 3 | 1 | IC LCH TTL LS COM CLEAR 8-BIT | 04713 | SN74LS259N |
| U4 | 1820-1729 | 3 | 1 | IC LCH TTL LS COM CLEAR 8-BIT | 04713 | SN74LS259N |
| U5 | 1820-1729 | 3 | 1 | IC LCH TTL LS COM CLEAR 8-BIT | 04713 | SN74LS259N |
| U6 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U7 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U8 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U9 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U10 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U11 | 1826-1036 | 5 | 1 | D/A 12-BIT 312-CERDIP | 34335 | AM6012DC |
| U12 | 1826-1036 | 5 | 1 | D/A 12-BIT 312-CERDIP | 34335 | AM6012DC |
| U13 | 1826-1036 | 5 | 1 | D/A 12-BIT 312-CERDIP | 34335 | AM6012DC |
| U14 | 1826-1036 | 5 | 1 | D/A 12-BIT 312-CERDIP | 34335 | AM6012DC |
| U15 | 1826-1036 | 5 | 1 | D/A 12-BIT 312-CERDIP | 34335 | AM6012DC |
| U16 | 1826-1186 | 8 | 1 | ANALOG SWITCH 4 SPST 16 -CERDIP | 06665 | SW-06GQ |
| U17 | 1826-1186 | 8 | 1 | ANALOG SWITCH 4 SPST 16 -CERDIP | 06665 | SW-06GQ |
| U18 | 1826-1186 | 8 | 1 | ANALOG SWITCH 4 SPST 16 -CERDIP | 06665 | SW-06GQ |
| U19 | 1826-0742 | 0 | 1 | IC V RGLTR-V-REF-FXD 10V TO-5 PKG | 24355 | AD581J |
| U21 | 1826-0915 | 9 | 1 | IC OP AMP LOW-BIAS-H-IMP 8-DIP-C PKG | 04713 | MC34001BU |
| U22 | 1826-0915 | 9 | 1 | IC OP AMP LOW-BIAS-H-IMP 8-DIP-C PKG | 04713 | MC34001BU |
| U23 | 1826-0915 | 9 | 1 | IC OP AMP LOW-BIAS-H-IMP 8-DIP-C PKG | 04713 | MC34001BU |
| U24 | 1826-0915 | 9 | 1 | IC OP AMP LOW-BIAS-H-IMP 8-DIP-C PKG | 04713 | MC34001BU |
| U25 | 1826-0915 | 9 | 1 | IC OP AMP LOW-BIAS-H-IMP 8-DIP-C PKG | 04713 | MC34001BU |
| U26 | 1826-0915 | 9 | 1 | IC OP AMP LOW-BIAS-H-IMP 8-DIP-C PKG | 04713 | MC34001BU |
| U27 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U28 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U29 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U30 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U31 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U32 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U33 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U34 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U35 | 1826-1048 | 1 | 1 | IC OP AMP PRCN 8-DIP-C PKG | 06665 | OP-07CZ |
| U36 | 1820-1491 | 6 | 1 | IC BFR TTL LS NON-INV HEX 1-INP | 01295 | SN74LS367AN |
| U37 | 1826-1177 | 7 | 1 | ANALOG MULTIPLEXER 16 CHNL 28 -CERDIP | 06665 | MUX-16-FT |

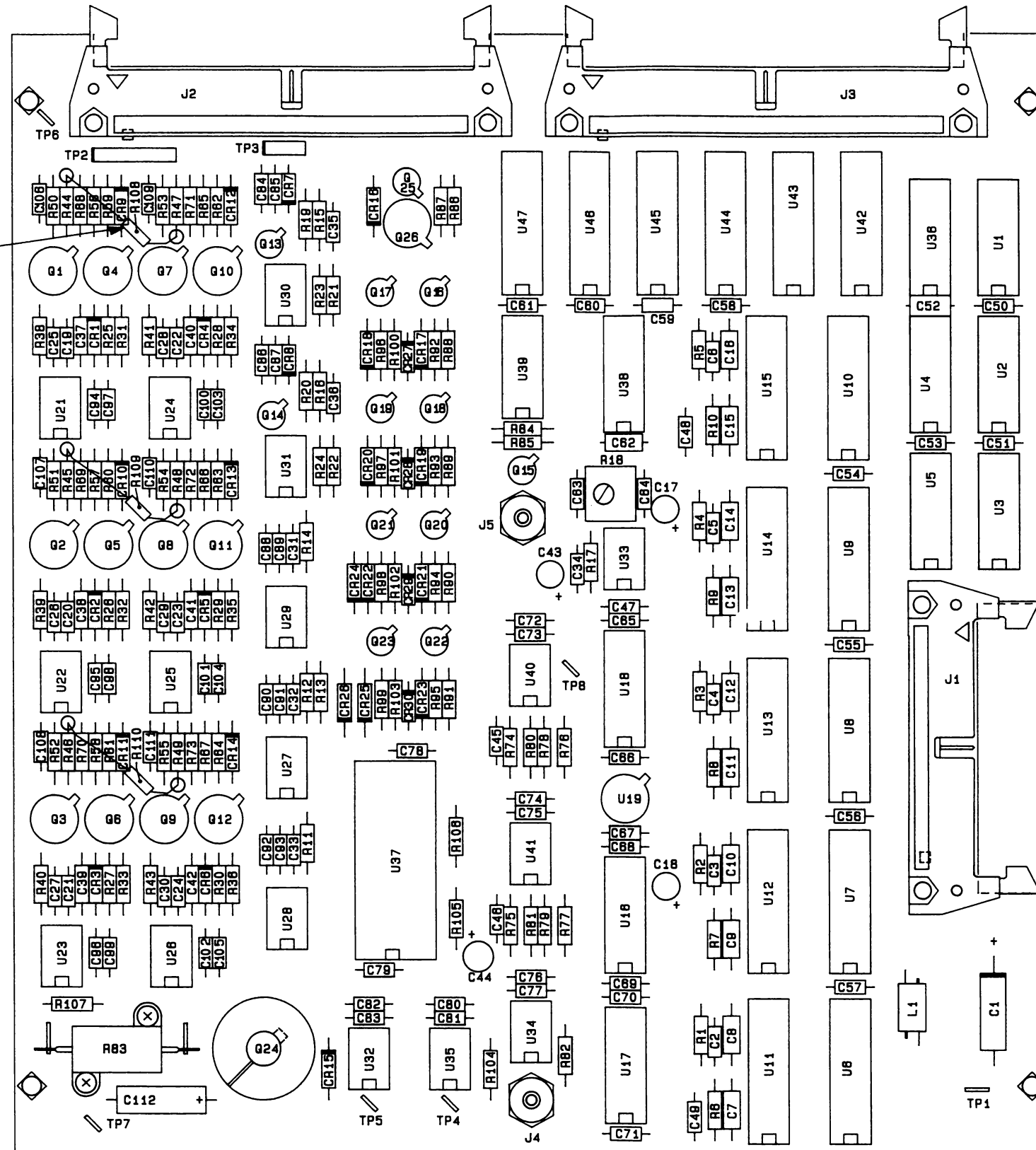
**Indicates factory-selected value*

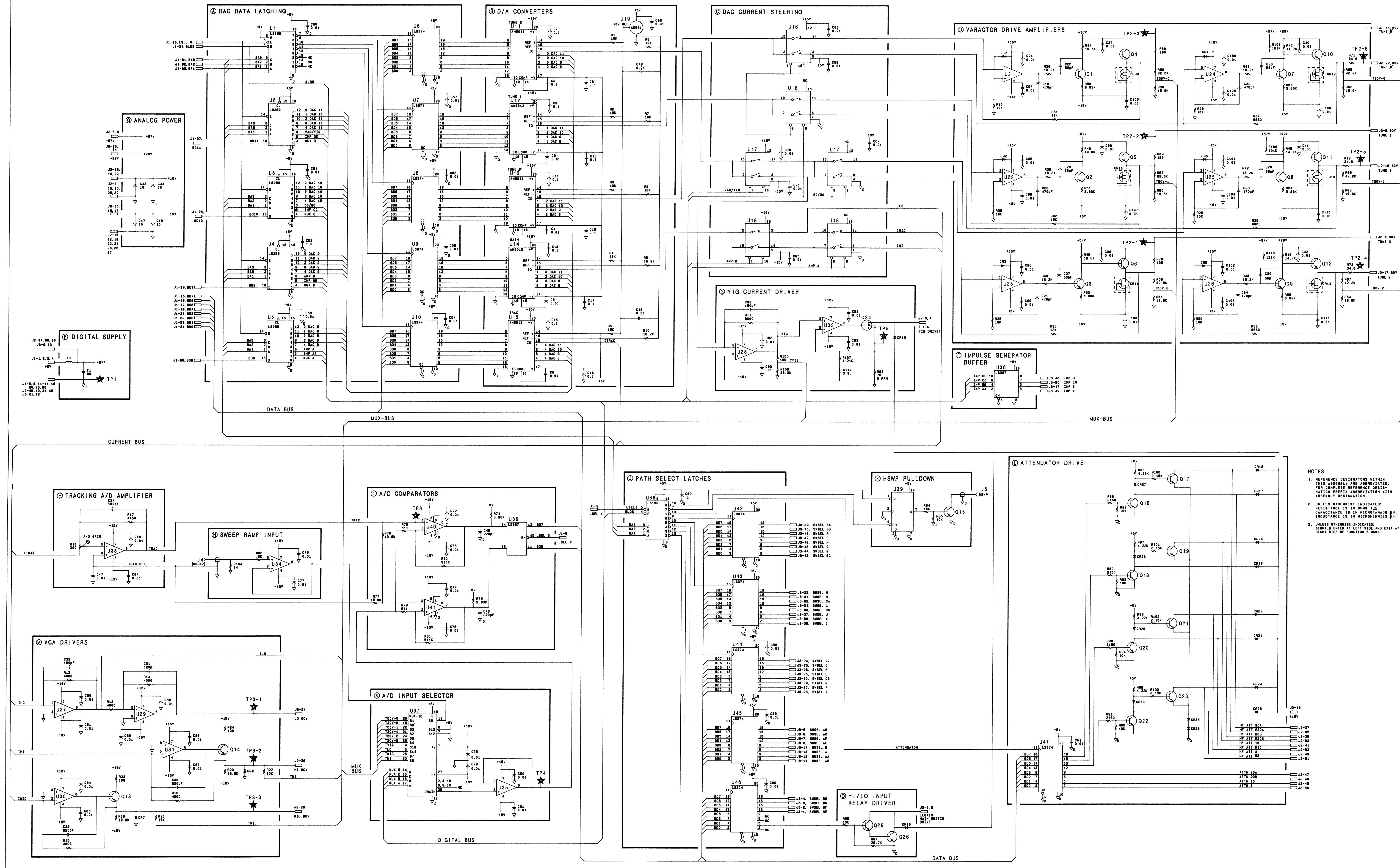
HP Part Number 85685-60106
DAC Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| U38 | 1820-1216 | 3 | 1 | IC DCDR TTL LS 3-TO-8-LINE 3-INP | 01295 | SN74LS138N |
| U39 | 1820-1112 | 8 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG PRESET | 01295 | SN74LS74AN |
| U40 | 1826-1221 | 2 | 1 | IC COMPARATOR PRCN 8-DIP-C PKG | 27014 | LM311J-8 |
| U41 | 1826-1221 | 2 | 1 | IC COMPARATOR PRCN 8-DIP-C PKG | 27014 | LM311J-8 |
| U42 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U43 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U44 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U45 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U46 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |
| U47 | 1820-2641 | 0 | 1 | IC FF TTL LS D-TYPE POS-EDGE-TRIG COM CL | 01295 | SN74LS374N |

**Indicates factory-selected value*

3 PLACES





NOTES:
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω), CAPACITANCE IS IN MICROFARADS (μF), INDUCTANCE IS IN MICROHENRIES (μH).
3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.

| J1 | | | |
|-----|--------|----------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | +5V | ALLJ4-1 | P |
| 2 | +5V | A11J4-2 | P |
| 3 | +5V | A11J4-3 | P |
| 4 | +5V | A11J4-4 | P |
| 5 | GND | A11J4-5 | P |
| 6 | GND | A11J4-6 | P |
| 7 | LSEL 3 | | |
| 8 | LSEL 2 | A11J4-8 | I |
| 9 | LSEL 2 | A11J4-9 | J |
| 10 | LSEL 2 | A11J4-10 | A |
| 11 | GND | A11J4-11 | P |
| 12 | GND | A11J4-12 | P |
| 13 | GND | A11J4-13 | P |
| 14 | GND | A11J4-14 | P |
| 15 | BD7 | A11J4-15 | A |
| 16 | BD6 | A11J4-16 | A |
| 17 | BD5 | A11J4-17 | A |
| 18 | BD4 | A11J4-18 | A |
| 19 | GND | A11J4-19 | P |
| 20 | GND | A11J4-20 | P |
| 21 | BD3 | A11J4-21 | A |
| 22 | BD2 | A11J4-22 | A |
| 23 | BD1 | A11J4-23 | A |
| 24 | BD0 | A11J4-24 | A |
| 25 | GND | A11J4-25 | P |
| 26 | GND | A11J4-26 | P |
| 27 | BD11 | A11J4-27 | A |
| 28 | BD10 | A11J4-28 | A |
| 29 | BD9 | A11J4-29 | A |
| 30 | BD8 | A11J4-30 | A |
| 31 | BA3 | A11J4-31 | A |
| 32 | BA2 | A11J4-32 | A |
| 33 | BA1 | A11J4-33 | A |
| 34 | BLDS | A11J4-34 | A |

| J2 | | | |
|-----|-------------|-----------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | LLOWIN | A16 | Q |
| 2 | LLOWIN | A16 | Q |
| 3 | IY16 | A15 | G |
| 4 | IY16 | A15 | G |
| 5 | +57V | A2A1J1-2 | Q |
| 6 | +57V | A2A1J1-2 | Q |
| 7 | GND | | Q |
| 8 | 50V TUNE 2 | A9A2J1-24 | D |
| 9 | 50V TUNE 1 | A9A2J1-25 | D |
| 10 | GND | | Q |
| 11 | 50V TUNE 2 | A9A2J1-22 | D |
| 12 | GND | | Q |
| 13 | +29V | A2A1J1-6 | Q |
| 14 | +29V | A2A1J1-8 | Q |
| 15 | GND | | Q |
| 16 | GND | | Q |
| 17 | 30V TUNE 2 | A9A2J1-19 | D |
| 18 | GND | | Q |
| 19 | 30V TUNE 1 | A9A2J1-21 | D |
| 20 | GND | | Q |
| 21 | GND | | Q |
| 22 | 30V TUNE 2 | A9A2J1-18 | D |
| 23 | GND | | Q |
| 24 | LO 6CV | A6J2-17 | M |
| 25 | GND | | Q |
| 26 | HI 6CV | A9A1J1-1 | M |
| 27 | GND | | Q |
| 28 | MID 6CV | A9A1J1-11 | M |
| 29 | GND | | Q |
| 30 | GND | | Q |
| 31 | HF ATT R3 | | L |
| 32 | HF ATT R10 | | L |
| 33 | HF ATT R20B | | L |
| 34 | +5V | | P |
| 35 | HF ATT R20A | | L |
| 36 | +5V | | P |
| 37 | HF ATT 20A | AT1 | L |
| 38 | +5V | | P |
| 39 | HF ATT 20B | AT1 | L |
| 40 | D6ND | | P |
| 41 | HF ATT 10 | AT1 | L |
| 42 | D6ND | | P |
| 43 | HF ATT 3 | AT1 | L |
| 44 | D6ND | | P |
| 45 | +15V | | L |
| 46 | D6ND | | P |
| 47 | ATTN 20A | A3J3-20 | L |
| 48 | ATTN 10 | A3J3-21 | L |
| 49 | ATTN 20B | A3J3-22 | L |
| 50 | ATTEN 3 | A3J3-19 | L |

| J3 | | | |
|-----|----------|-----------|----------------|
| PIN | SIGNAL | TO FROM | FUNCTION BLOCK |
| 1 | SWSEL BE | A9A1J1-15 | J |
| 2 | SWSEL BF | A9A1J1-14 | J |
| 3 | SWSEL BG | A9A1J1-8 | J |
| 4 | SWSEL BD | A9A1J1-6 | J |
| 5 | SWSEL AB | A6J2-1 | J |
| 6 | SWSEL AC | A3J3-14 | J |
| 7 | SWSEL AF | A6J2-3 | J |
| 8 | SWSEL AE | A6J2-5 | J |
| 9 | +5V | | P |
| 10 | +5V | | P |
| 11 | SWSEL AD | A6J2-7 | J |
| 12 | SWSEL AA | A6J2-15 | J |
| 13 | SWSEL A | A5J1-17 | J |
| 14 | SWSEL B | A5J1-19 | J |
| 15 | -15V | | Q |
| 16 | -15V | | Q |
| 17 | -15V | | Q |
| 18 | +15V | | Q |
| 19 | +15V | | Q |
| 20 | +15V | | Q |
| 21 | D6ND | | P |
| 22 | D6ND | | P |
| 23 | SWSEL C | A5J1-9 | J |
| 24 | SWSEL ZZ | | J |
| 25 | SWSEL D | A4J1-3 | J |
| 26 | SWSEL E | A4J1-7 | J |
| 27 | SWSEL F | A4J1-11 | J |
| 28 | SWSEL Z | | J |
| 29 | SWSEL G | A4J1-15 | J |
| 30 | SWSEL CB | A8J1-2 | J |
| 31 | SWSEL H | A8J1-1 | J |
| 32 | SWSEL CA | A8J1-4 | J |
| 33 | SWSEL M | A8J1-14 | J |
| 34 | SWSEL L | A8J1-16 | J |
| 35 | SWSEL I | A8J1-15 | J |
| 36 | SWSEL K | A8J1-13 | J |
| 37 | SWSEL J | A8J1-3 | J |
| 38 | SWSEL CC | A8J1-5 | J |
| 39 | SWSEL BA | A9A2J1-12 | J |
| 40 | SWSEL BB | A9A2J1-11 | J |
| 41 | SWSEL R | A9A2J1-9 | J |
| 42 | SWSEL P | A9A2J1-6 | J |
| 43 | SWSEL BC | A9A2J1-8 | J |
| 44 | SWSEL Q | A9A2J1-5 | J |
| 45 | SWSEL O | A9A2J1-3 | J |
| 46 | SWSEL N | A9A2J1-2 | J |
| 47 | IMP B | A14A1J1-6 | F |
| 48 | IMP D | | F |
| 49 | IMP A | A14A1J1-8 | F |
| 50 | IMP EN | A14A1J1-8 | F |



Component-Level Information Packet

for 85685-60109

Keyboard Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90053

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



HP Part Number 85685-60109
Keyboard Assembly

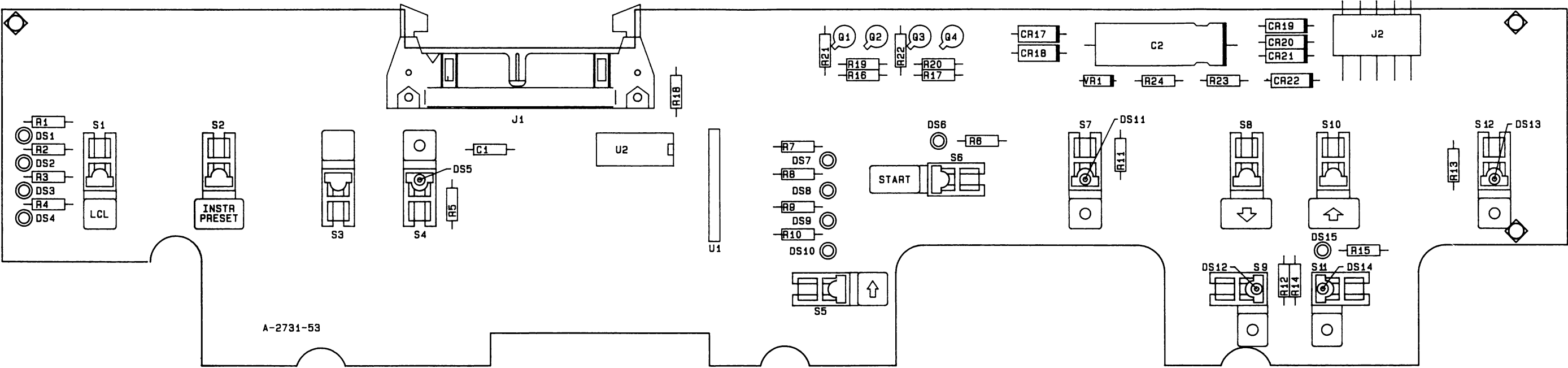
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| C1 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10% 50VDC CER | 04222 | SA115C104KAAH |
| C2 | 0180-3943 | 8 | 1 | CAPACITOR-FXD 220UF+-20% 50VDC AL | 28480 | 0180-3943 |
| CR17 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA D0-29 | 28480 | 1901-0028 |
| CR18 | 1901-0028 | 5 | 1 | DIODE-PWR RECT 400V 750MA D0-29 | 28480 | 1901-0028 |
| CR19 | 1901-0026 | 3 | 1 | DIODE-PWR RECT 200V 750MA D0-29 | 28480 | 1901-0026 |
| CR20 | 1901-0026 | 3 | 1 | DIODE-PWR RECT 200V 750MA D0-29 | 28480 | 1901-0026 |
| CR21 | 1901-0026 | 3 | 1 | DIODE-PWR RECT 200V 750MA D0-29 | 28480 | 1901-0026 |
| CR22 | 1901-0026 | 3 | 1 | DIODE-PWR RECT 200V 750MA D0-29 | 28480 | 1901-0026 |
| DS1 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| DS2 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| DS3 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| DS4 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| DS5 | 1990-0670 | 0 | 1 | LED-LAMP LUM-INT=1MCD IF=20MA-MAX BVR=5V | 28480 | HLMP-6400 |
| DS6 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| DS7 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| DS9 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| DS10 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| DS11 | 1990-0670 | 0 | 1 | LED-LAMP LUM-INT=1MCD IF=20MA-MAX BVR=5V | 28480 | HLMP-6400 |
| DS12 | 1990-0670 | 0 | 1 | LED-LAMP LUM-INT=1MCD IF=20MA-MAX BVR=5V | 28480 | HLMP-6400 |
| DS13 | 1990-0670 | 0 | 1 | LED-LAMP LUM-INT=1MCD IF=20MA-MAX BVR=5V | 28480 | HLMP-6400 |
| DS14 | 1990-0670 | 0 | 1 | LED-LAMP LUM-INT=1MCD IF=20MA-MAX BVR=5V | 28480 | HLMP-6400 |
| DS15 | 1990-0487 | 7 | 1 | LED-LAMP LUM-INT=2MCD BVR=5V | 28480 | HLMP-1401 |
| J1 | 1251-7166 | 7 | 1 | CONN-POST TYPE .100-PIN-SPCG 34-CONT | 76381 | 3431-1203 |
| J2 | 1252-1249 | 7 | 1 | CONN-POST TYPE .156-PIN-SPCG 5-CONT | 00779 | 641210-5 |
| MP2 | 5041-3929 | 1 | 1 | SPCR .450L LED | 28480 | 5041-3929 |
| MP3 | 5041-0855 | 6 | 1 | KEY CAP-UP | 28480 | 5041-0855 |
| MP4 | 5041-0855 | 6 | 1 | KEY CAP-UP | 28480 | 5041-0855 |
| MP5 | 5041-1884 | 3 | 1 | HAF-EBY-PRL | 28480 | 5041-1884 |
| MP6 | 5041-0318 | 6 | 1 | KEY Q PTY GRA LT | 28480 | 5041-0318 |
| MP7 | 5041-0483 | 6 | 1 | KEY Q BTR GLD LT | 28480 | 5041-0483 |
| MP8 | 5041-0285 | 6 | 1 | KEY Q PRL GRA LT | 28480 | 5041-0285 |
| MP9 | 5041-0285 | 6 | 1 | KEY Q PRL GRA LT | 28480 | 5041-0285 |
| MP10 | 5041-0285 | 6 | 1 | KEY Q PRL GRA LT | 28480 | 5041-0285 |
| MP11 | 5041-0922 | 8 | 1 | QTR-EBY-PRL | 28480 | 5041-0922 |
| MP12 | 5041-0309 | 5 | 1 | KEY Q PTY GRA | 28480 | 5041-0309 |
| MP13 | 5041-0720 | 4 | 1 | KEY H-INST PREST | 28480 | 5041-0720 |
| MP14 | 5041-0726 | 0 | 1 | KEY Q-LCL | 28480 | 5041-0726 |
| Q1 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI T0-18 PD=500MW | 04713 | 2N2222A |
| Q2 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI T0-18 PD=500MW | 04713 | 2N2222A |
| Q3 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI T0-18 PD=500MW | 04713 | 2N2222A |
| Q4 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI T0-18 PD=500MW | 04713 | 2N2222A |
| R1 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R2 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R3 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R4 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R5 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R6 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R7 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |

**Indicates factory-selected value*

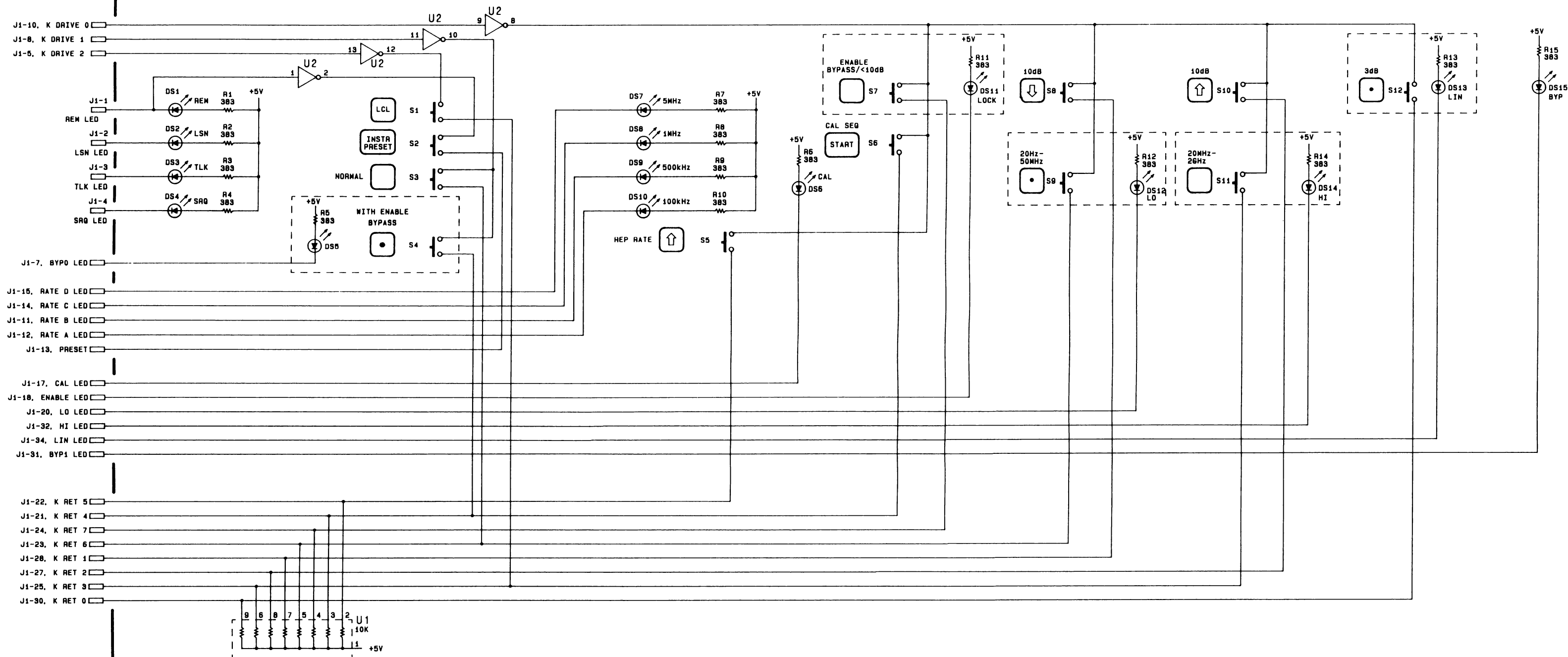
HP Part Number 85685-60109
Keyboard Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--------------------------------------|----------|-----------------|
| R8 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R9 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R10 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R11 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R12 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R13 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R14 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R16 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R17 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R18 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R19 | 0698-3449 | 6 | 1 | RESISTOR 28.7K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R20 | 0698-3449 | 6 | 1 | RESISTOR 28.7K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R21 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R22 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R23 | 0698-4002 | 9 | 1 | RESISTOR 5K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R24 | 0698-4002 | 9 | 1 | RESISTOR 5K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| S1 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S2 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S3 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S4 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S5 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S6 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S7 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S8 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S9 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S10 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| S11 | 5060-9436 | 7 | 1 | SWITCH-PB SPST-NO MOM | 71468 | 5560-9436 |
| U1 | 1810-0280 | 8 | 1 | NETWORK-RES 10-SIP 10.0K OHM X 9 | 91637 | MSP10A01 |
| U2 | 1820-1200 | 5 | 1 | IC INV TTL LS HEX | 01295 | SN74LS05N |
| VR1 | 1902-1299 | 6 | 1 | DIODE-ZNR 3.3V 5% PD=1W IR=10UA | 28480 | 1902-1299 |

KEYBOARD ASSEMBLY
85685-60109



Ⓑ KEYBOARD

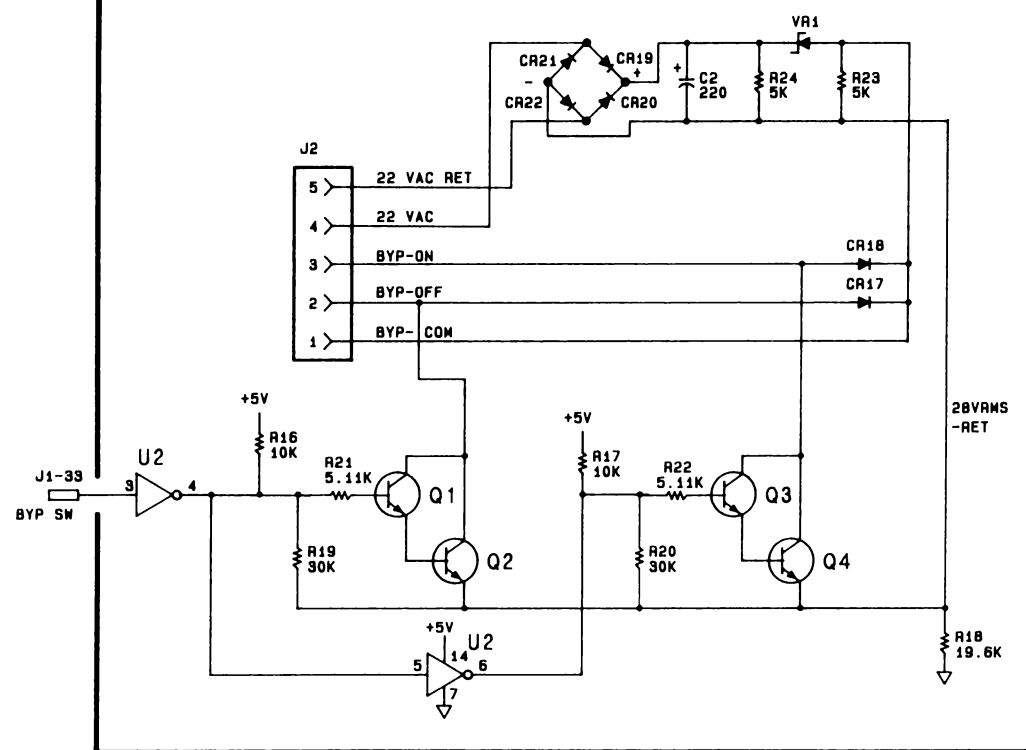


NOTES:

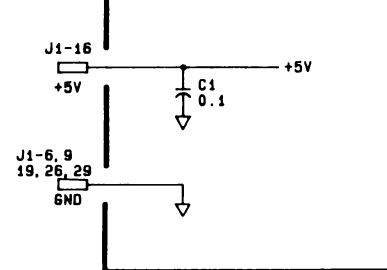
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω), CAPACITANCE IS IN MICROFARADS (μ F), INDUCTANCE IS IN MICROHENRIES (μ H).
3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.

| J 1 | | | |
|-----|------------|----------|----------------|
| PIN | SIGNAL | TO/FROM | FUNCTION BLOCK |
| 1 | REM-LED | A11J5-1 | B |
| 2 | LSN-LED | A11J5-2 | B |
| 3 | TLK-LED | A11J5-3 | B |
| 4 | SRQ-LED | A11J5-4 | B |
| 5 | K DRIVE 2 | A11J5-5 | B |
| 6 | GND | | C |
| 7 | BYP#-LED | A11J5-7 | B |
| 8 | K DRIVE 1 | A11J5-8 | B |
| 9 | GND | | C |
| 10 | K DRIVE # | A11J5-10 | B |
| 11 | RATE B-LED | A11J5-11 | B |
| 12 | RATE A-LED | A11J5-12 | B |
| 13 | PRESET | A11J5-13 | B |
| 14 | RATE C-LED | A11J5-14 | B |
| 15 | RATE D-LED | A11J5-15 | B |
| 16 | +5V | A11J5-16 | C |
| 17 | CAL-LED | A11J5-17 | B |
| 18 | ENABLE-LED | A11J5-18 | B |
| 19 | GND | | C |
| 20 | LO-LED | A11J5-20 | B |
| 21 | KRET 4 | A11J5-21 | B |
| 22 | KRET 5 | A11J5-22 | B |
| 23 | KRET 6 | A11J5-23 | B |
| 24 | KRET 7 | A11J5-24 | B |
| 25 | KRET 3 | A11J5-25 | B |
| 26 | GND | | C |
| 27 | KRET 2 | A11J5-27 | B |
| 28 | KRET 1 | A11J5-28 | B |
| 29 | GND | | C |
| 30 | KRET-# | A11J5-30 | B |
| 31 | BYP1-LED | A11J5-31 | B |
| 32 | HI-LED | A11J5-32 | B |
| 33 | BYP-SW | A11J5-33 | A |
| 34 | LIN-LED | A11J5-34 | B |

Ⓐ BYPASS DRIVER



Ⓒ POWER SUPPLY





Component-Level Information Packet

for 85685-60111

Motherboard Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90063

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



**HEWLETT
PACKARD**

HP Part Number 85685-60111
Motherboard Assembly

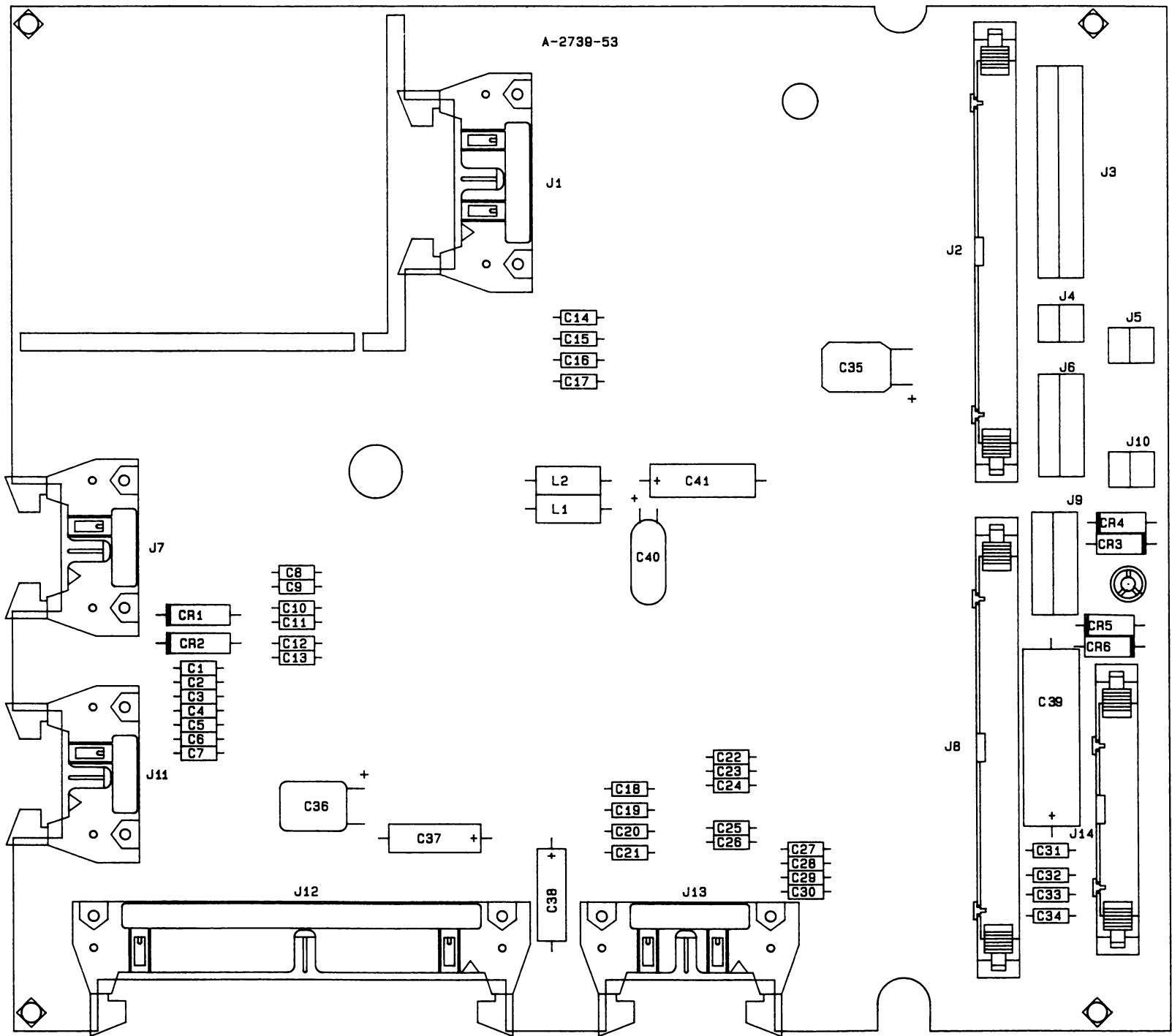
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--------------------------------------|----------|--------------------|
| C1 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C2 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C3 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C4 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C5 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C6 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C7 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C8 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C9 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C10 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C11 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C12 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C13 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C14 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C15 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C16 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C17 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C18 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C19 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C20 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C21 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C22 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C23 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C24 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C25 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C26 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C27 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C28 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C29 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C30 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C31 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C32 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C33 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C34 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20% 50VDC CER | 04222 | SA105C103MAAH |
| C35 | 0180-0500 | 7 | 1 | CAPACITOR-FXD 47UF+-20% 20VDC TA | 56289 | 199D1114 |
| C36 | 0180-0500 | 7 | 1 | CAPACITOR-FXD 47UF+-20% 20VDC TA | 56289 | 199D1114 |
| C37 | 0180-0228 | 6 | 1 | CAPACITOR-FXD 22UF+-10% 15VDC TA | 56289 | 150D226X9015B2-DYS |
| C38 | 0180-0228 | 6 | 1 | CAPACITOR-FXD 22UF+-10% 15VDC TA | 56289 | 150D226X9015B2-DYS |
| C39 | 0180-3944 | 9 | 1 | CAPACITOR-FXD 330UF+-20% 50VDC AL | 28480 | 0180-3944 |
| C40 | 0180-0630 | 4 | 1 | CAPACITOR-FXD 4.7UF+-20% 50VDC TA | 56289 | 199D1123 |
| C41 | 0180-2210 | 0 | 1 | CAPACITOR-FXD 2UF+50-10% 150VDC AL | 56289 | 30D205F150BB2-DSM |
| CR1 | 1901-1081 | 2 | 1 | DIODE-PWR RECT 100V 3A | 04713 | MR501 |
| CR2 | 1901-1081 | 2 | 1 | DIODE-PWR RECT 100V 3A | 04713 | MR501 |
| CR3 | 1901-0026 | 3 | 1 | DIODE-PWR RECT 200V 750MA DO-29 | 28480 | 1901-0026 |
| CR4 | 1901-0026 | 3 | 1 | DIODE-PWR RECT 200V 750MA DO-29 | 28480 | 1901-0026 |
| CR5 | 1901-0026 | 3 | 1 | DIODE-PWR RECT 200V 750MA DO-29 | 28480 | 1901-0026 |
| CR6 | 1901-0026 | 3 | 1 | DIODE-PWR RECT 200V 750MA DO-29 | 28480 | 1901-0026 |
| J1 | 1251-5648 | 6 | 1 | CONN-POST TYPE .100-PIN-SPCG 16-CONT | 76381 | 3408-1202 |

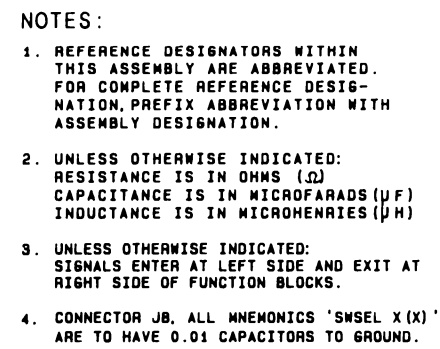
*Indicates factory-selected value

HP Part Number 85685-60111
Motherboard Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|--------------------|
| J2 | 1251-6334 | 9 | 1 | CONN-POST TYPE .100-PIN-SPCG 50-CONT | 76381 | 3433-2203 |
| J3 | 1252-1252 | 2 | 1 | CONN-POST TYPE .156-PIN-SPCG 10-CONT | 00779 | 1-641209-0 |
| J4 | 1252-1250 | 0 | 1 | CONN-POST TYPE .156-PIN-SPCG 2-CONT | 00779 | 641209-2 |
| J5 | 1252-1250 | 0 | 1 | CONN-POST TYPE .156-PIN-SPCG 2-CONT | 00779 | 641209-2 |
| J6 | 1252-1251 | 1 | 1 | CONN-POST TYPE .156-PIN-SPCG 5-CONT | 00779 | 641209-5 |
| J7 | 1251-5647 | 5 | 1 | CONN-POST TYPE .100-PIN-SPCG 10-CONT | 76381 | 3446-1202 |
| J8 | 1251-6334 | 9 | 1 | CONN-POST TYPE .100-PIN-SPCG 50-CONT | 76381 | 3433-2203 |
| J9 | 1252-1251 | 1 | 1 | CONN-POST TYPE .156-PIN-SPCG 5-CONT | 00779 | 641209-5 |
| J10 | 1252-1250 | 0 | 1 | CONN-POST TYPE .156-PIN-SPCG 2-CONT | 00779 | 641209-2 |
| J11 | 1251-5647 | 5 | 1 | CONN-POST TYPE .100-PIN-SPCG 10-CONT | 76381 | 3446-1202 |
| J12 | 1251-5511 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 50-CONT | 76381 | 3433-1203 |
| J13 | 1251-5648 | 6 | 1 | CONN-POST TYPE .100-PIN-SPCG 16-CONT | 76381 | 3408-1202 |
| J14 | 1251-5800 | 2 | 1 | CONN-POST TYPE .100-PIN-SPCG 26-CONT | 76381 | 3429-2203 |
| L1 | 9140-0118 | 8 | 1 | INDUCTOR RF-CH-MLD 500UH +-5% .2D-INX.45 | 99800 | 2500-14 |
| L2 | 9140-0118 | 8 | 1 | INDUCTOR RF-CH-MLD 500UH +-5% .2D-INX.45 | 99800 | 2500-14 |
| MP2 | 6960-0016 | 0 | 1 | PLUG-HOLE TR-HD FOR .125-D-HOLE NYL | 02768 | 207-080501-01-0101 |

**Indicates factory-selected value*







Component-Level Information Packet

for 85685-60113

RF Attenuator Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90055

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



HP Part Number 85685-60113
RF Attenuator Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|----------------------|
| C1 | 0160-4807 | 3 | 1 | CAPACITOR-FXD 33PF +-5%100VDC CER 0+-30 | 04222 | SA102A330JAAH |
| C2 | 0160-4807 | 3 | 1 | CAPACITOR-FXD 33PF +-5%100VDC CER 0+-30 | 04222 | SA102A330JAAH |
| C3 | 0160-4803 | 9 | 1 | CAPACITOR-FXD 68PF +-5%100VDC CER 0+-30 | 04222 | SA102A680JAAH |
| C4 | 0160-4846 | 0 | 1 | CAPACITOR-FXD 1500PF +-5%100VDC CER 0+- | 04222 | SA201A152JAAH |
| C5 | 0160-4535 | 4 | 1 | CAPACITOR-FXD 1UF +-10%50VDC CER | | RPE113-130X7R105K50V |
| C7 | 0160-4832 | 4 | 1 | CAPACITOR-FXD .01UF +-10%100VDC CER | 04222 | SA101C103KAAH |
| C8 | 0160-5098 | 6 | 1 | CAPACITOR-FXD .22UF +-10%50VDC CER | 04222 | SA405C224KAAH |
| C9 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C10 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C11 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C12 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C13 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C14 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C15 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C16 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C17 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C18 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C19 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C20 | 0160-4835 | 7 | 1 | CAPACITOR-FXD .1UF +-10%50VDC CER | 04222 | SA115C104KAAH |
| C21 | 0180-0228 | 6 | 1 | CAPACITOR-FXD 22UF+-10%15VDC TA | 56289 | 150D226X9015B2-DYS |
| C22 | 0180-0116 | 1 | 1 | CAPACITOR-FXD 6.8UF+-10%35VDC TA | 56289 | 150D685X9035B2-DYS |
| C23 | 0180-0116 | 1 | 1 | CAPACITOR-FXD 6.8UF+-10%35VDC TA | 56289 | 150D685X9035B2-DYS |
| C24 | 0180-0228 | 6 | 1 | CAPACITOR-FXD 22UF+-10%15VDC TA | 56289 | 150D226X9015B2-DYS |
| C25 | 0160-4846 | 0 | 1 | CAPACITOR-FXD 1500PF +-5%100VDC CER 0+- | 04222 | SA201A152JAAH |
| CR1 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR2 | 1901-1097 | 0 | 1 | DIODE-PIN | 28480 | 1901-1097 |
| CR3 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR4 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR5 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR6 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR7 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR8 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR9 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR10 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR11 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR12 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR13 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR14 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR15 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR16 | 1901-0033 | 2 | 1 | DIODE-GEN PRP 180V 200MADO-35 | 9N171 | 1N645 |
| CR17 | 5082-1001 | 2 | 1 | HIGH G DIODE | 28480 | 5082-1001 |
| CR18 | 5082-1001 | 2 | 1 | HIGH G DIODE | 28480 | 5082-1001 |
| CR19 | 1902-0556 | 6 | 1 | DIODE-ZNR 20V 5% PD=1WIR=5UA | 28480 | 1902-0556 |
| CR20 | 1902-0556 | 6 | 1 | DIODE-ZNR 20V 5% PD=1WIR=5UA | 28480 | 1902-0556 |
| J1 | 1250-1611 | 3 | 1 | CONNECTOR-RF SMB M PC50-OHM | 98291 | 51-051-0289 |
| J2 | 1250-1611 | 3 | 1 | CONNECTOR-RF SMB M PC50-OHM | 98291 | 51-051-0289 |
| J3 | 1252-0208 | 6 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 1-103166-0 |
| J4 | 1252-0211 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 1-103168-0 |

**Indicates factory-selected value*

HP Part Number 85685-60113
RF Attenuator Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|----------------------------|
| K1 | 0490-1451 | 6 | 1 | RELAY 1C 5VDC-COIL .01A24VDC | 28480 | 0490-1451 |
| K2 | 0490-1451 | 6 | 1 | RELAY 1C 5VDC-COIL .01A24VDC | 28480 | 0490-1451 |
| K3 | 0490-1451 | 6 | 1 | RELAY 1C 5VDC-COIL .01A24VDC | 28480 | 0490-1451 |
| K4 | 0490-1451 | 6 | 1 | RELAY 1C 5VDC-COIL .01A24VDC | 28480 | 0490-1451 |
| K5 | 0490-1451 | 6 | 1 | RELAY 1C 5VDC-COIL .01A24VDC | 28480 | 0490-1451 |
| K6 | 0490-1451 | 6 | 1 | RELAY 1C 5VDC-COIL .01A24VDC | 28480 | 0490-1451 |
| K7 | 0490-1451 | 6 | 1 | RELAY 1C 5VDC-COIL .01A24VDC | 28480 | 0490-1451 |
| K8 | 0490-1451 | 6 | 1 | RELAY 1C 5VDC-COIL .01A24VDC | 28480 | 0490-1451 |
| L1 | 9100-3314 | 8 | 1 | INDUCTOR RF-CH-MLD 150NH+-5% .166D-INX. | 24226 | 15M150J |
| L3 | 9100-3560 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6UH+-5% .166D-INX. | 24226 | 15M561J |
| L5 | 9100-1671 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6MH+-5% .25D-INX.7 | 99800 | 2500-64 |
| L6 | 9100-1671 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6MH+-5% .25D-INX.7 | 99800 | 2500-64 |
| L7 | 9100-1654 | 5 | 1 | INDUCTOR RF-CH-MLD 1.1MH+-5% .23D-INX.5 | 99800 | 2500-30 |
| L8 | 9100-1645 | 4 | 1 | INDUCTOR RF-CH-MLD 390UH+-5% .2D-INX.45 | 99800 | 2500-08 |
| L9 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L10 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L11 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L12 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L13 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L14 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L15 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L16 | 9100-3560 | 6 | 1 | INDUCTOR RF-CH-MLD 5.6UH+-5% .166D-INX. | 24226 | 15M561J |
| L17 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L18 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L19 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| MP2 | 1390-0281 | 7 | 1 | FASTENER-SNAP-IN PLGR PANELTHKNS | 83014 | HN5P-53-4-1 |
| MP3 | 1390-0104 | 3 | 1 | FASTENER-SNAP-IN GROM PANELTHKNS | 83014 | HN5G-53-1 |
| MP4 | 3050-1017 | 1 | 1 | WASHER-FL MTL C 5/16 IN.324-IN-ID | 86928 | 5710-79-30 |
| MP5 | 8159-0005 | 0 | 1 | RESISTOR-ZERO OHMS 22 AWGLEAD DIA | 55210 | L-2007-1 |
| MP6 | 85685-20087 | 6 | 1 | GROUND STRIP | 28480 | 85685-20087 |
| MP7 | 0360-0124 | 3 | 1 | CONNECTOR-SGL CONT PIN.04-IN-BSC-SZ RND | 28480 | 0360-0124 |
| MP8 | 0890-0099 | 4 | 1 | TUBING-FLEX .025-ID TFE.012-WALL | 09795 | I-SW |
| MP9 | 0470-0634 | 3 | 1 | ADHESIVE HARDMAN EPOWELD04001 EPOXY | 96900 | EPOWELD 04001 DOUBLE BUBBL |
| Q1 | 1855-0292 | 6 | 1 | TRANSISTOR J-FET 2N5432N-CHAN D-MODE TO | 27014 | 2N5432 |
| Q2 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q3 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q4 | 1855-0423 | 5 | 1 | TRANSISTOR MOSFET N-CHANE-MODE TO-237 S | 17856 | VN10KM |
| Q5 | 1855-0423 | 5 | 1 | TRANSISTOR MOSFET N-CHANE-MODE TO-237 S | 17856 | VN10KM |
| Q6 | 1853-0281 | 9 | 1 | TRANSISTOR PNP 2N2907A SITO-18 PD=400MW | 04713 | 2N2907A |
| Q7 | 1853-0281 | 9 | 1 | TRANSISTOR PNP 2N2907A SITO-18 PD=400MW | 04713 | 2N2907A |
| Q8 | 1853-0281 | 9 | 1 | TRANSISTOR PNP 2N2907A SITO-18 PD=400MW | 04713 | 2N2907A |
| Q9 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SITO-18 PD=500MW | 04713 | 2N2222A |
| R1 | 0698-3402 | 1 | 1 | RESISTOR 316 1% .5W TFTC=0+-100 | 19701 | 5053R |
| R2 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R3 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R4 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R5 | 0757-0428 | 1 | 1 | RESISTOR 1.62K 1% .125W TFTC=0+-100 | 19701 | SFR25H |

HP Part Number 85685-60113
RF Attenuator Assembly

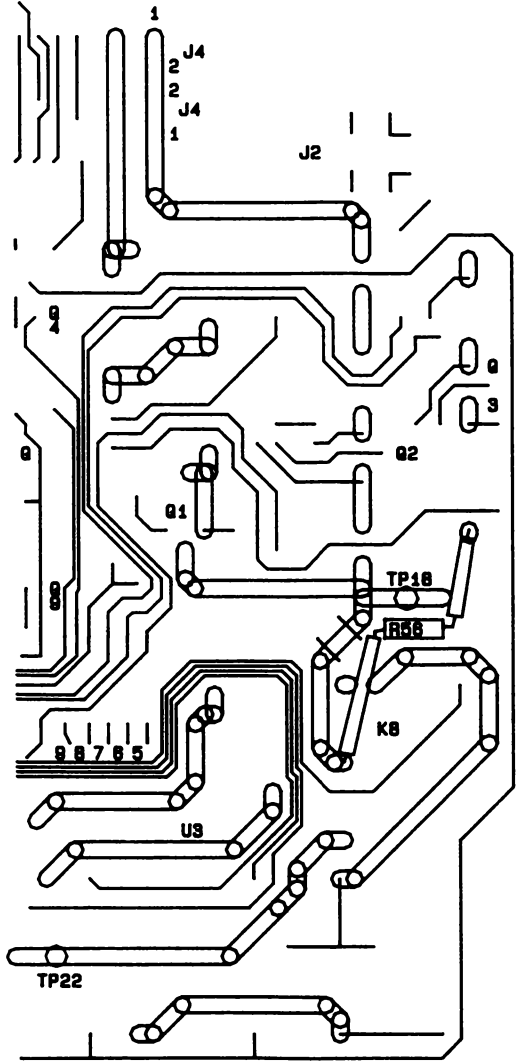
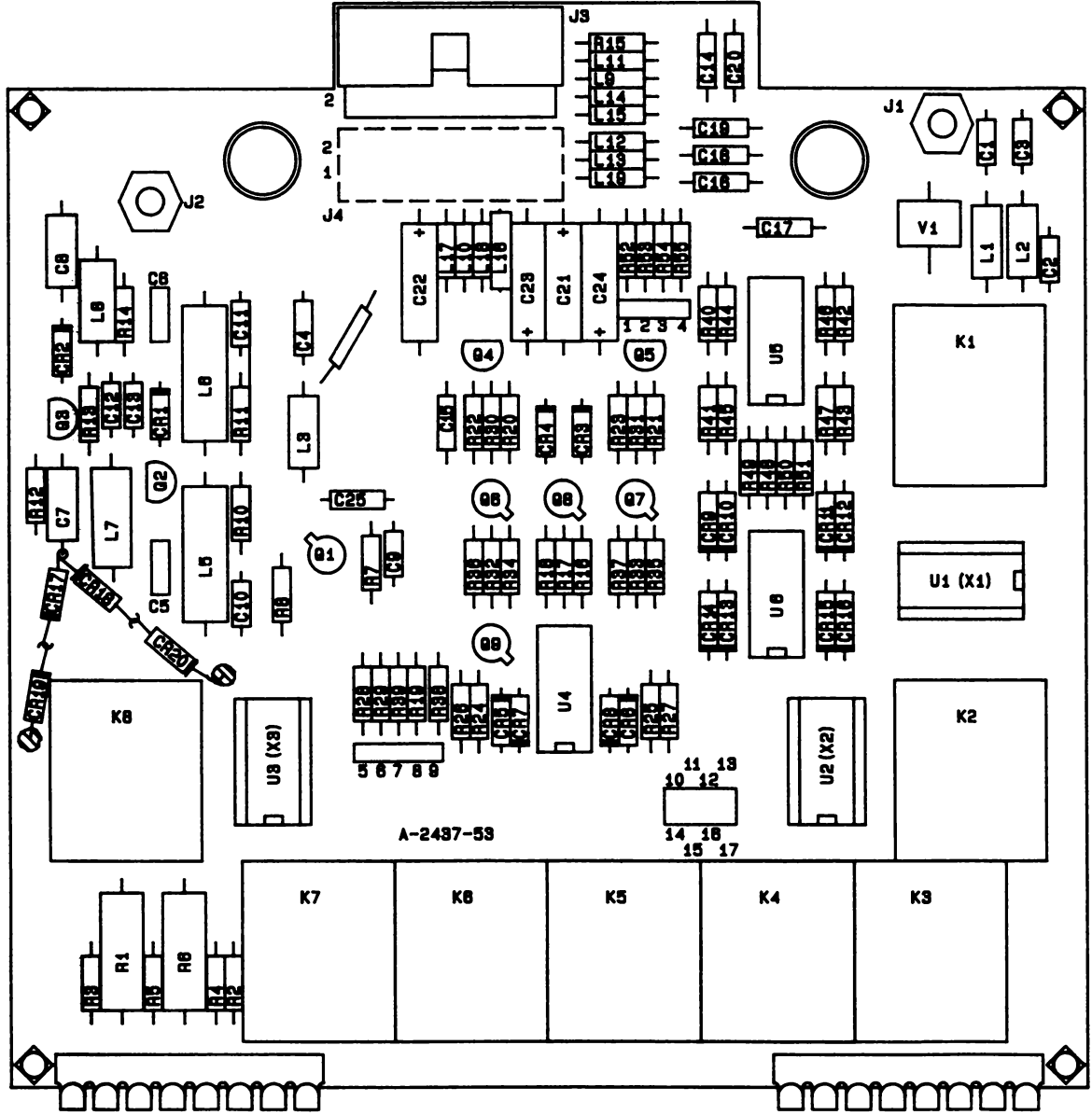
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|-------------------------------------|----------|-----------------|
| R6 | 0698-3389 | 3 | 1 | RESISTOR 17.8 1% .5W TFTC=0+-100 | 91637 | CMF-65-2 |
| R7 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R8 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R10 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R11 | 0698-3433 | 8 | 1 | RESISTOR 28.7 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R13 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R14 | 0757-0405 | 4 | 1 | RESISTOR 162 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R15 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R16 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R17 | 0698-3156 | 2 | 1 | RESISTOR 14.7K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R18 | 0698-3156 | 2 | 1 | RESISTOR 14.7K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R19 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R20 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R21 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R22 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R23 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R24 | 0757-0465 | 6 | 1 | RESISTOR 100K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R25 | 0757-0465 | 6 | 1 | RESISTOR 100K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R26 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R27 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R28 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R29 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R30 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R32 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R33 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R34 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R35 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R36 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R37 | 0698-3153 | 9 | 1 | RESISTOR 3.83K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R38 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R39 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R40 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R41 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R42 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R43 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R44 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R45 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R46 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R47 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R48 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R49 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R50 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R51 | 0698-0082 | 7 | 1 | RESISTOR 464 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R52 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R53 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R54 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R55 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| TP1 | 1251-5619 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68000-604 |

HP Part Number 85685-60113

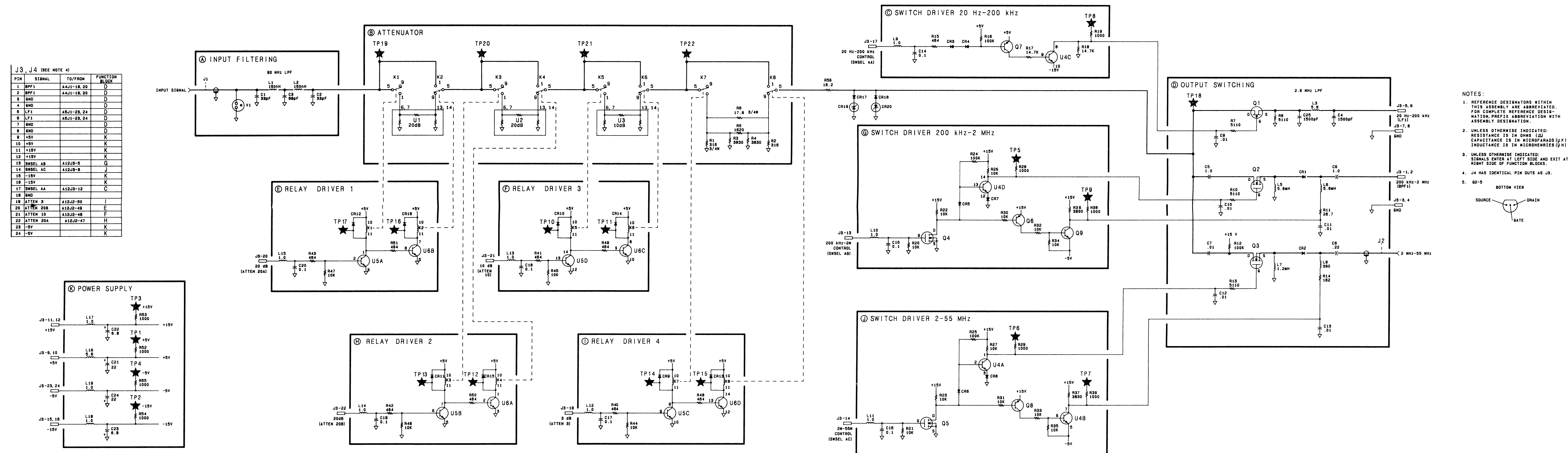
RF Attenuator Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|------------------------------------|----------|-----------------|
| TP2 | 1251-5619 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68000-604 |
| TP3 | 1251-5619 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68000-604 |
| TP4 | 1251-5619 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 4-CONT | 18873 | 68000-604 |
| TP5 | 1251-5103 | 8 | 1 | CONN-POST TYPE.100-PIN-SPCG 5-CONT | 18873 | 68001-605 |
| TP6 | 1251-5103 | 8 | 1 | CONN-POST TYPE.100-PIN-SPCG 5-CONT | 18873 | 68001-605 |
| TP7 | 1251-5103 | 8 | 1 | CONN-POST TYPE.100-PIN-SPCG 5-CONT | 18873 | 68001-605 |
| TP8 | 1251-5103 | 8 | 1 | CONN-POST TYPE\j | | |
| TP9 | 1251-5103 | 8 | 1 | CONN-POST TYPE.100-PIN-SPCG 5-CONT | 18873 | 68001-605 |
| TP10 | 1251-4926 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 8-CONT | 18873 | 67996-608 |
| TP11 | 1251-4926 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 8-CONT | 18873 | 67996-608 |
| TP12 | 1251-4926 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 8-CONT | 18873 | 67996-608 |
| TP13 | 1251-4926 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 8-CONT | 18873 | 67996-608 |
| TP14 | 1251-4926 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 8-CONT | 18873 | 67996-608 |
| TP15 | 1251-4926 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 8-CONT | 18873 | 67996-608 |
| TP16 | 1251-4926 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 8-CONT | 18873 | 67996-608 |
| TP17 | 1251-4926 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 8-CONT | 18873 | 67996-608 |
| U1 | 1810-0773 | 4 | 1 | NETWORK-RES 14-DIP MULTI-VALUE | 01121 | CDB1247 |
| U2 | 1810-0773 | 4 | 1 | NETWORK-RES 14-DIP MULTI-VALUE | 01121 | CDB1247 |
| U3 | 1810-0774 | 5 | 1 | NETWORK-RES 14-DIP MULTI-VALUE | 01121 | CDB1246 |
| V1 | 1970-0073 | 5 | 1 | TUBE-ELECTRON SURGE V PTCTR | | B1-C90-Y17 |
| X1 | 1200-1163 | 5 | 1 | SOCKET-IC 14-CONT DIPDIP-SLDR | 55322 | IC-314-STT |
| X2 | 1200-1163 | 5 | 1 | SOCKET-IC 14-CONT DIPDIP-SLDR | 55322 | IC-314-STT |
| X3 | 1200-1163 | 5 | 1 | SOCKET-IC 14-CONT DIPDIP-SLDR | 55322 | IC-314-STT |

RF ATTENUATOR
85685-60113



BOTTOM SIDE DETAIL





Component-Level Information Packet

for 85685-60114

Low-Frequency Filter/Amplifier Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90057

**Printed October 1989
Printed in USA**

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



HP Part Number 85685-60114
Low Frequency Filter/Amplifier Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|--------------------|
| C1 | 0180-2811 | 7 | 1 | CAPACITOR-FXD 10UF+-20%35VDC TA | 56289 | 199D1145 |
| C2 | 0180-2811 | 7 | 1 | CAPACITOR-FXD 10UF+-20%35VDC TA | 56289 | 199D1145 |
| C3 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C4 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C5 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C6 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C7 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C8 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C12 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C13 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C14 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C15 | 0160-4554 | 7 | 1 | CAPACITOR-FXD .01UF +-20%50VDC CER | 04222 | SA105C103MAAH |
| C16 | 0180-0474 | 4 | 1 | CAPACITOR-FXD 15UF+-10%20VDC TA | 56289 | 199D1109 |
| C17 | 0180-0474 | 4 | 1 | CAPACITOR-FXD 15UF+-10%20VDC TA | 56289 | 199D1109 |
| C18 | 0180-2617 | 1 | 1 | CAPACITOR-FXD 6.8UF+-10%35VDC TA | 56289 | 199D1131 |
| C19 | 0180-2617 | 1 | 1 | CAPACITOR-FXD 6.8UF+-10%35VDC TA | 56289 | 199D1131 |
| C20 | 0160-2453 | 1 | 1 | CAPACITOR-FXD .22UF +-10%80VDC POLYE | 09023 | WMC08P22 |
| C21 | 0160-2453 | 1 | 1 | CAPACITOR-FXD .22UF +-10%80VDC POLYE | 09023 | WMC08P22 |
| C22 | 0160-0970 | 3 | 1 | CAPACITOR-FXD .47UF +-10%80VDC POLYE | 84411 | HEW-238T |
| C23 | 0160-0970 | 3 | 1 | CAPACITOR-FXD .47UF +-10%80VDC POLYE | 84411 | HEW-238T |
| C24 | 0160-0970 | 3 | 1 | CAPACITOR-FXD .47UF +-10%80VDC POLYE | 84411 | HEW-238T |
| C25 | 0160-2453 | 1 | 1 | CAPACITOR-FXD .22UF +-10%80VDC POLYE | 09023 | WMC08P22 |
| C26 | 0160-0163 | 6 | 1 | CAPACITOR-FXD .033UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C27 | 0160-0163 | 6 | 1 | CAPACITOR-FXD .033UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C28 | 0160-0166 | 9 | 1 | CAPACITOR-FXD .068UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C29 | 0160-0165 | 8 | 1 | CAPACITOR-FXD .056UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C31 | 0170-0066 | 9 | 1 | CAPACITOR-FXD .027UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C32 | 0160-0301 | 4 | 1 | CAPACITOR-FXD .012UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C33 | 0160-0301 | 4 | 1 | CAPACITOR-FXD .012UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C34 | 0160-5100 | 1 | 1 | CAPACITOR-FXD 2700PF +-5%100VDC CER 0+- | 04222 | SA301A272JAAH |
| C36 | 0160-0162 | 5 | 1 | CAPACITOR-FXD .022UF +-10%200VDC POLYE | 84411 | HEW-238M |
| C41 | 0180-1714 | 7 | 1 | CAPACITOR-FXD 330UF+-10%6VDC TA | 56289 | 150D337X9006S2-DYS |
| C42 | 0180-1714 | 7 | 1 | CAPACITOR-FXD 330UF+-10%6VDC TA | 56289 | 150D337X9006S2-DYS |
| C43 | 0180-1714 | 7 | 1 | CAPACITOR-FXD 330UF+-10%6VDC TA | 56289 | 150D337X9006S2-DYS |
| C44 | 0180-0552 | 9 | 1 | CAPACITOR-FXD 220UF+-20%10VDC TA | 56289 | 199D1116 |
| C45 | 0180-0552 | 9 | 1 | CAPACITOR-FXD 220UF+-20%10VDC TA | 56289 | 199D1116 |
| C46 | 0180-0552 | 9 | 1 | CAPACITOR-FXD 220UF+-20%10VDC TA | 56289 | 199D1116 |
| C47 | 0180-0094 | 4 | 1 | CAPACITOR-FXD 100UF+75-10%25VDC AL | 56289 | 30D107G025DD2-DSM |
| C48 | 0180-0552 | 9 | 1 | CAPACITOR-FXD 220UF+-20%10VDC TA | 56289 | 199D1116 |
| C49 | 0180-2811 | 7 | 1 | CAPACITOR-FXD 10UF+-20%35VDC TA | 56289 | 199D1145 |
| C50 | 0180-1714 | 7 | 1 | CAPACITOR-FXD 330UF+-10%6VDC TA | 56289 | 150D337X9006S2-DYS |
| C52 | 0160-4822 | 2 | 1 | CAPACITOR-FXD 1000PF +-5%100VDC CER 0+- | 04222 | SA201A102JAAH |
| J1 | 1252-0208 | 6 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 1-103166-0 |
| J2 | 1252-0211 | 1 | 1 | CONN-POST TYPE.100-PIN-SPCG 24-CONT | 00779 | 1-103168-0 |
| L1 | 85685-80014 | 5 | 1 | COIL 1.0MH +-5% | 28480 | 85685-80014 |
| L2 | 85685-80014 | 5 | 1 | COIL 1.0MH +-5% | 28480 | 85685-80014 |
| L3 | 85685-80010 | 1 | 1 | COIL 700UH +-4% | 28480 | 85685-80010 |
| L4 | 85685-80010 | 1 | 1 | COIL 700UH +-4% | 28480 | 85685-80010 |

**Indicates factory-selected value*

HP Part Number 85685-60114
Low Frequency Filter/Amplifier Assembly

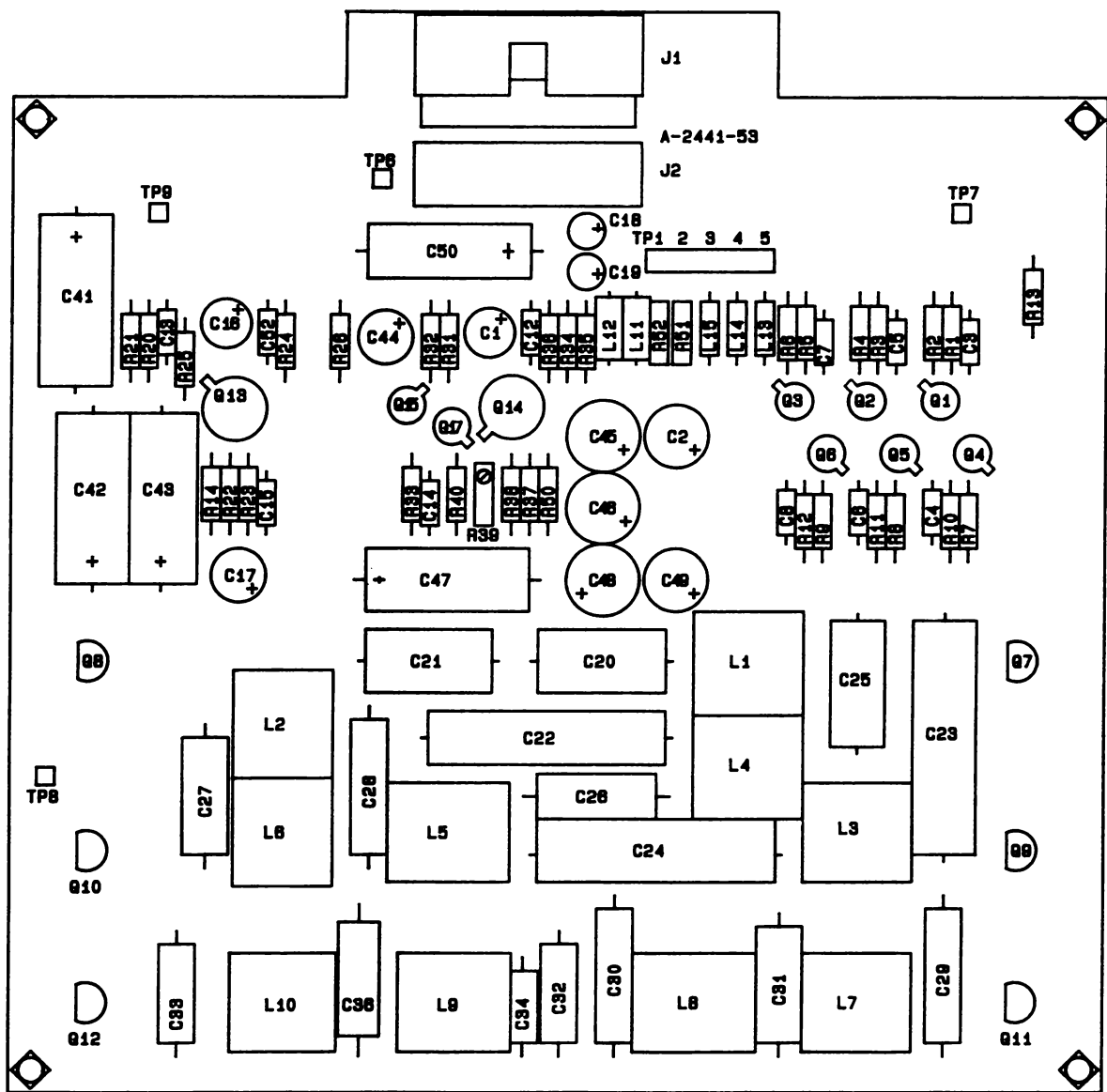
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|---|----------|-----------------|
| L5 | 85685-80013 | 4 | 1 | INDUCTOR | 28480 | 85685-80013 |
| L6 | 85685-80013 | 4 | 1 | INDUCTOR | 28480 | 85685-80013 |
| L7 | 85685-80011 | 2 | 1 | COIL 86UH +-7% | 28480 | 85685-80011 |
| L8 | 85685-80011 | 2 | 1 | COIL 86UH +-7% | 28480 | 85685-80011 |
| L9 | 85685-80012 | 3 | 1 | COIL 53UH +-8% | 28480 | 85685-80012 |
| L10 | 85685-80012 | 3 | 1 | COIL 53UH +-8% | 28480 | 85685-80012 |
| L12 | 9100-1641 | 0 | 1 | INDUCTOR RF-CH-MLD 240UH+-5% .166D-INX. | 99800 | 1537-94 |
| L13 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L14 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| L15 | 9140-0158 | 6 | 1 | INDUCTOR RF-CH-MLD 1UH+-10% .105D-INX.2 | 32159 | 1A1002M +-10% |
| MP2 | 1390-0281 | 7 | 1 | FASTENER-SNAP-IN PLGR PANELTHKNS | 83014 | HN5P-53-4-1 |
| MP3 | 1390-0104 | 3 | 1 | FASTENER-SNAP-IN GROM PANELTHKNS | 83014 | HN5G-53-1 |
| MP4 | 3050-1017 | 1 | 1 | WASHER-FL MTLCL 5/16 IN.324-IN-ID | 86928 | 5710-79-30 |
| Q1 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SITO-18 PD=500MW | 04713 | 2N2222A |
| Q2 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SITO-18 PD=500MW | 04713 | 2N2222A |
| Q3 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SITO-18 PD=500MW | 04713 | 2N2222A |
| Q4 | 1853-0281 | 9 | 1 | TRANSISTOR PNP 2N2907A SITO-18 PD=400MW | 04713 | 2N2907A |
| Q5 | 1853-0281 | 9 | 1 | TRANSISTOR PNP 2N2907A SITO-18 PD=400MW | 04713 | 2N2907A |
| Q6 | 1853-0281 | 9 | 1 | TRANSISTOR PNP 2N2907A SITO-18 PD=400MW | 04713 | 2N2907A |
| Q7 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q8 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q9 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q10 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q11 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q12 | 1855-0525 | 8 | 1 | TRANSISTOR MOSFET N-CHANE-MODE SI | 17856 | VN0300M |
| Q13 | 1854-0378 | 7 | 1 | TRANSISTOR NPN 2N5109 SITO-39 PD=800MW | 04713 | 2N5109 |
| Q15 | 1853-0281 | 9 | 1 | TRANSISTOR PNP 2N2907A SITO-18 PD=400MW | 04713 | 2N2907A |
| Q17 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SITO-18 PD=500MW | 04713 | 2N2222A |
| R1 | 0757-0123 | 3 | 1 | RESISTOR 34.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R2 | 0757-0123 | 3 | 1 | RESISTOR 34.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R3 | 0757-0123 | 3 | 1 | RESISTOR 34.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R4 | 0757-0123 | 3 | 1 | RESISTOR 34.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R5 | 0757-0123 | 3 | 1 | RESISTOR 34.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R6 | 0757-0123 | 3 | 1 | RESISTOR 34.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R7 | 0698-3136 | 8 | 1 | RESISTOR 17.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R8 | 0698-3136 | 8 | 1 | RESISTOR 17.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R9 | 0698-3136 | 8 | 1 | RESISTOR 17.8K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R10 | 0757-0459 | 8 | 1 | RESISTOR 56.2K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R11 | 0757-0459 | 8 | 1 | RESISTOR 56.2K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R12 | 0757-0459 | 8 | 1 | RESISTOR 56.2K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R13 | 0698-3156 | 2 | 1 | RESISTOR 14.7K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R14 | 0757-0394 | 0 | 1 | RESISTOR 51.1 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R20 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R21 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R22 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R23 | 0698-3157 | 3 | 1 | RESISTOR 19.6K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R24 | 0698-3154 | 0 | 1 | RESISTOR 4.22K 1% .125W TFTC=0+-100 | 19701 | SFR25H |

**Indicates factory-selected value*

HP Part Number 85685-60114
Low Frequency Filter/Amplifier Assembly

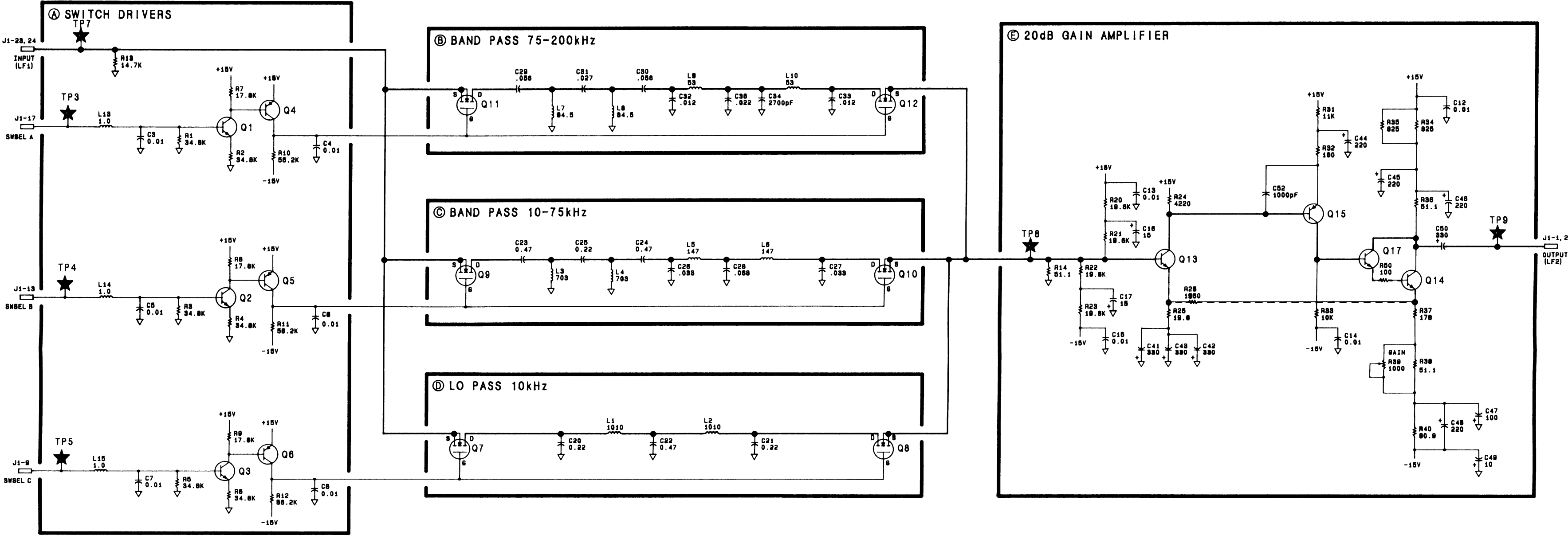
| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|--------|-----|--|----------|-----------------|
| R25 | 0698-3429 | 2 | 1 | RESISTOR 19.6 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R26 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R31 | 0757-0443 | 0 | 1 | RESISTOR 11K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R33 | 0757-0442 | 9 | 1 | RESISTOR 10K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R34 | 0757-0421 | 4 | 1 | RESISTOR 825 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R35 | 0757-0421 | 4 | 1 | RESISTOR 825 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R36 | 0757-0394 | 0 | 1 | RESISTOR 51.1 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R37 | 0698-3439 | 4 | 1 | RESISTOR 178 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R38 | 0757-0394 | 0 | 1 | RESISTOR 51.1 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R39 | 2100-3296 | 8 | 1 | RESISTOR-TRMR 1K 10% TKFTOP-ADJ 17-TRN | 73138 | 67WR |
| R40 | 0757-0400 | 9 | 1 | RESISTOR 90.9 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R50 | 0757-0401 | 0 | 1 | RESISTOR 100 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R51 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| R52 | 0698-0083 | 8 | 1 | RESISTOR 1.96K 1% .125W TFTC=0+-100 | 19701 | SFR25H |
| TP1 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP2 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP3 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP5 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP6 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP7 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP8 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |
| TP9 | 0360-0535 | 0 | 1 | TERMINAL-TEST POINT .330INABOVE | 28480 | 0360-0535 |

LOW FREQUENCY FILTER/AMPLIFIER
85685-60114

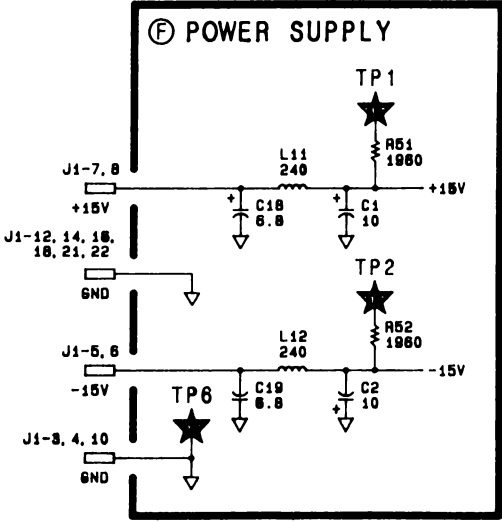


LOW FREQUENCY FILTER/AMPLIFIER COMPONENT LOCATIONS: 85685-60114

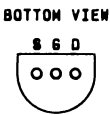
A5 LOW FREQUENCY FILTER/AMPLIFIER
85685-60114




| J1, J2 (SEE NOTE 4) | | | |
|---------------------|---------|-------------|----------------|
| PIN | SIGNAL | TO/FROM | FUNCTION BLOCK |
| 1 | LF2 | ASJ2-19, 20 | E |
| 2 | LF2 | ASJ2-19, 20 | E |
| 3 | GND | | F |
| 4 | GND | | F |
| 5 | -15V | | F |
| 6 | -15V | | F |
| 7 | +15V | | F |
| 8 | +15V | | F |
| 9 | SWSEL C | A12J3-28 | A |
| 10 | GND | | F |
| 11 | NC | | |
| 12 | GND | | F |
| 13 | SWSEL B | A12J3-14 | A |
| 14 | GND | | F |
| 15 | NC | | |
| 16 | GND | | F |
| 17 | SWSEL A | A12J3-18 | A |
| 18 | GND | | F |
| 19 | NC | | |
| 20 | NC | | |
| 21 | GND | | F |
| 22 | GND | | F |
| 23 | LF1 | ASJ3-5, 6 | A |
| 24 | LF1 | ASJ3-5, 6 | A |



- NOTES:
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
 2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω) CAPACITANCE IS IN MICROFARADS (μF) INDUCTANCE IS IN MICROHENRIES (μH)
 3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.
 4. J2 HAS IDENTICAL PIN OUTS AS J1.
 5. Q7-Q12





Component-Level Information Packet

for 85685-60120

Comb Generator Assembly

Copyright © 1989 Hewlett-Packard Company

HP Document Part Number 85685-90068

Printed October 1989
Printed in USA

Hewlett-Packard does not guarantee the accuracy of the information contained in this document. The configuration of some assemblies may differ from that indicated in this document.



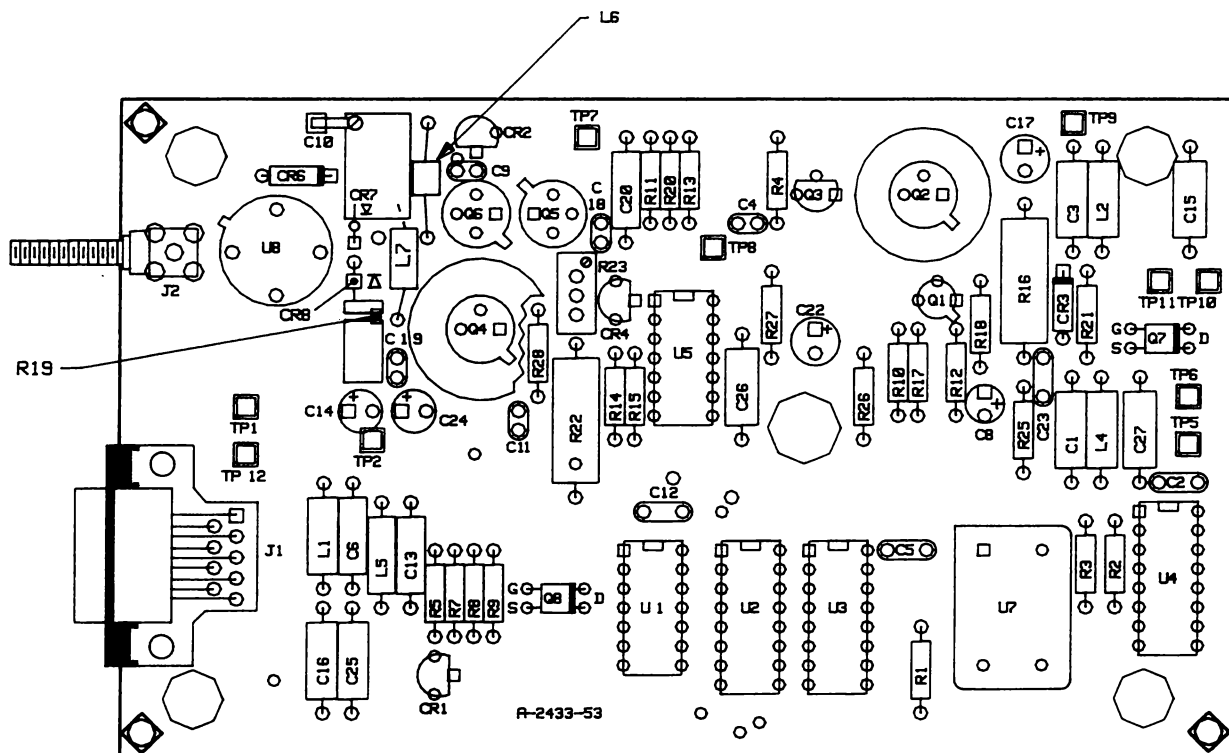
HP Part Number 85685-60120
Comb Generator Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| C1 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C2 | 0160-4084 | 8 | 1 | CAP-FXD 0.1uF 50 V | 56289 | 1C20X7R104M050B |
| C3 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C4 | 0160-4387 | 4 | 1 | CAPACITOR-FXD 47PF +-5% 200VDC CER 0+-30 | 28480 | 0160-4387 |
| C5 | 0160-4084 | 8 | 1 | CAP-FXD 0.1uF 50 V | 56289 | 1C20X7R104M050B |
| C6 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C8 | 0180-0630 | 4 | 1 | CAP-FXD 4.7uF 50 V TA | 56289 | 199D1123 |
| C9 | 0160-4365 | 8 | 1 | CAP-FXD 470pF 100 V | 04222 | SR201A471JAAH |
| C10 | 0121-0557 | 0 | 1 | CAPACITOR-V TRMR-PSTN, SPHR .6-2.5PF | 18736 | P3F |
| C11 | 0160-4389 | 6 | 1 | CAP-FXD 100pF 200 V | 04222 | SR202A101JAAH |
| C12 | 0160-4084 | 8 | 1 | CAP-FXD 0.1uF 50 V | 56289 | 1C20X7R104M050B |
| C13 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C14 | 0180-2661 | 5 | 1 | CAPACITOR-FXD 1UF+-10% 50VDC TA | 56289 | 199D1135 |
| C15 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C16 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C17 | 0180-2697 | 7 | 1 | CAPACITOR-FXD 10UF+-10% 25VDC TA | 56289 | 199D1141 |
| C18 | 0160-4547 | 8 | 1 | CAPACITOR-FXD 150PF +-5% 200VDC CER | 04222 | SR202A151JAAH |
| C19 | 0160-4387 | 4 | 1 | CAPACITOR-FXD 47PF +-5% 200VDC CER 0+-30 | | FD12C0G2D470J |
| C20 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C22 | 0180-2697 | 7 | 1 | CAPACITOR-FXD 10UF+-10% 25VDC TA | 56289 | 199D1141 |
| C23 | 0160-4084 | 8 | 1 | CAP-FXD 0.1uF 50 V | 56289 | 1C20X7R104M050B |
| C24 | 0180-2661 | 5 | 1 | CAPACITOR-FXD 1UF+-10% 50VDC TA | 56289 | 199D1135 |
| C25 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C26 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| C27 | 0160-4557 | 0 | 1 | CAP-FXD 0.1uF 50 V | 04222 | SA305C104MAAH |
| CR1 | 1826-1167 | 5 | 1 | IC V RGLTR-V-REF-FXD 1.23/1.23V T0-92 | 28480 | 1826-1167 |
| CR2 | 1826-1167 | 5 | 1 | IC V RGLTR-V-REF-FXD 1.23/1.23V T0-92 | 28480 | 1826-1167 |
| CR3 | 1902-0041 | 4 | 1 | DIODE-ZNR 5.11V 5% D0-35 PD=.4W | 28480 | 1902-0041 |
| CR4 | 1826-0774 | 8 | 1 | IC V RGLTR-V-REF-FXD 1.22/1.24V T0-92 | 27014 | LM385BZ-1.2 |
| CR6 | 1901-0539 | 3 | 1 | DIODE-SCHOTTKY SM SIG | | |
| CR7 | 1900-0080 | 7 | 1 | DIODE-STEP RECOVERY | 28480 | 1900-0080 |
| CR8 | 1900-0235 | 4 | 1 | DIODE-SCHOTTKY SM SIG | 28480 | QSCH-5362 |
| J1 | 1252-0639 | 7 | 1 | CONN-RECT D-SUBMIN 9-CKT 9-CONT | 33095 | 56-702-012 |
| J2 | 1250-1986 | 5 | 1 | CONNECTOR-RF SMA FEM PC 50-OHM | 98291 | 50-653-0069-31 |
| L1 | 9100-0539 | 3 | 1 | INDUCTOR RF-CH-MLD 10UH +-5% .156D-INX.3 | 24226 | 15M102J |
| L2 | 9100-0539 | 3 | 1 | INDUCTOR RF-CH-MLD 10UH +-5% .156D-INX.3 | 24226 | 15M102J |
| L4 | 9100-0539 | 3 | 1 | INDUCTOR RF-CH-MLD 10UH +-5% .156D-INX.3 | 24226 | 15M102J |
| L5 | 9100-0539 | 3 | 1 | INDUCTOR RF-CH-MLD 10UH +-5% .156D-INX.3 | 24226 | 15M102J |
| L6 | 9170-1361 | 8 | 1 | CORE-MAGNETIC INIT PERMEABILITY: 1000 | 02114 | 11418-4A6 |
| L7 | 9170-1347 | 0 | 1 | CORE-MAGNETIC INIT PERMEABILITY: 1000 | 02114 | 11435-4A6 |
| MP2 | 0340-0595 | 0 | 1 | INSULATOR-XSTR NYLON WHITE | 13103 | 7717-131N WHITE |
| MP4 | 1200-0173 | 5 | 1 | INSULATOR-XSTR DAP-GL | 07047 | A-10001 DAP |
| MP5 | 1205-0011 | 0 | 1 | HEAT SINK TO-5/TO-39-CS | 98978 | TXBF-032-025B |
| MP6 | 1205-0011 | 0 | 1 | HEAT SINK TO-5/TO-39-CS | 98978 | TXBF-032-025B |
| Q1 | 1854-0477 | 7 | 1 | TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW | 04713 | 2N2222A |
| Q2 | 1853-0314 | 9 | 1 | TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW | 04713 | 2N2905A |
| Q3 | 1855-0423 | 5 | 1 | TRANSISTOR MOSFET N-CHAN E-MODE TO-237 S | 17856 | VN10KM |
| Q4 | 1854-0637 | 1 | 1 | TRANSISTOR NPN 2N2219A SI TO-5 PD=800MW | 04713 | 2N2219A |

**Indicates factory-selected value*

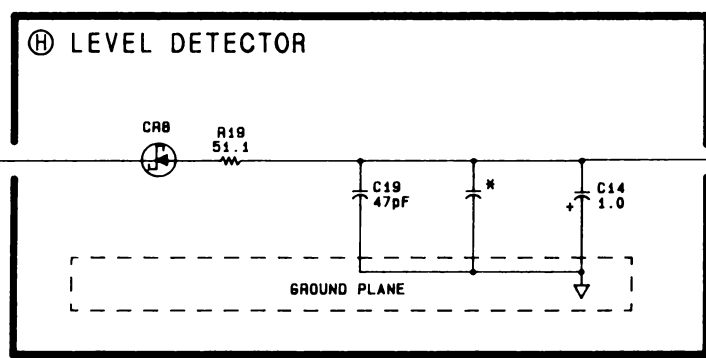
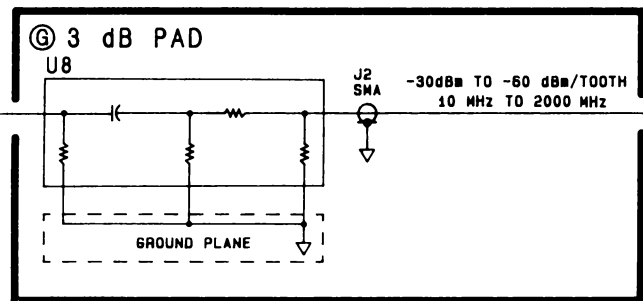
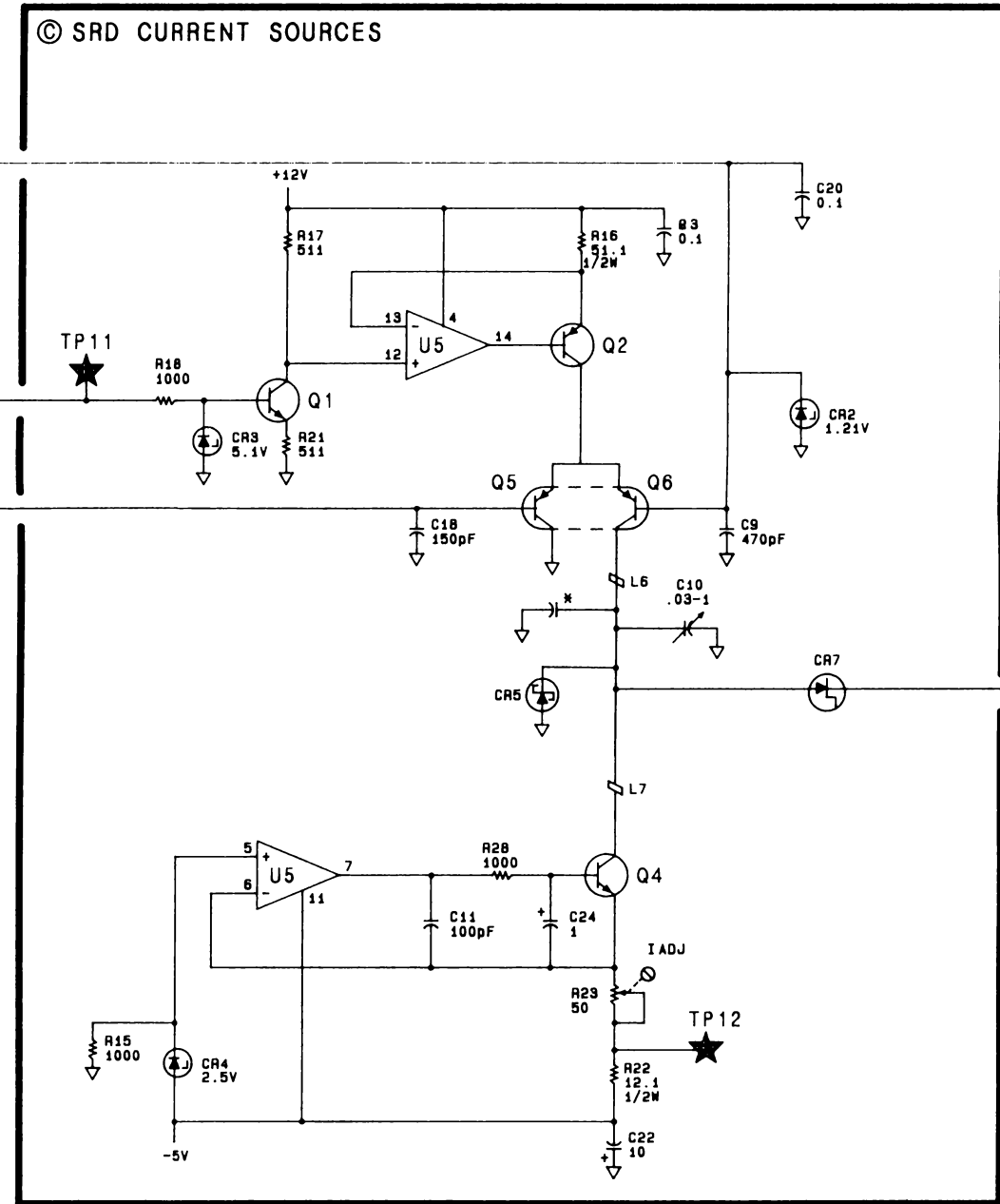
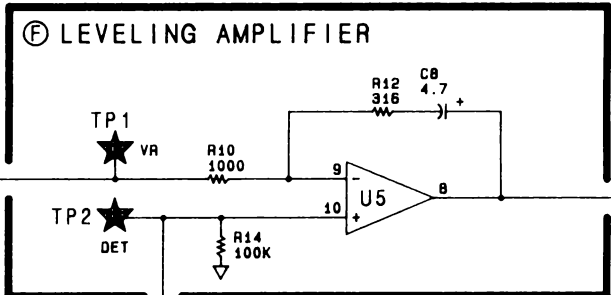
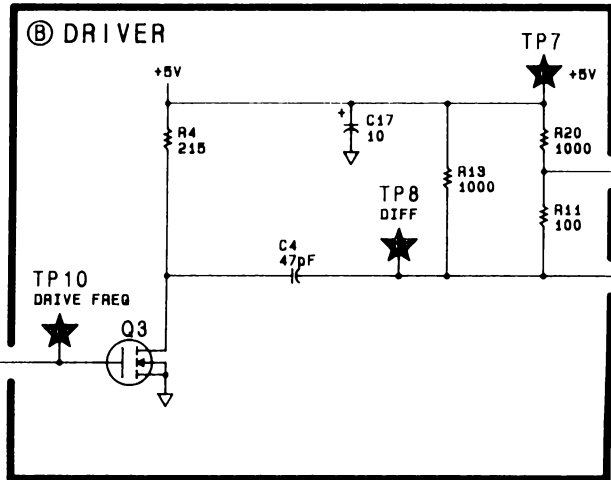
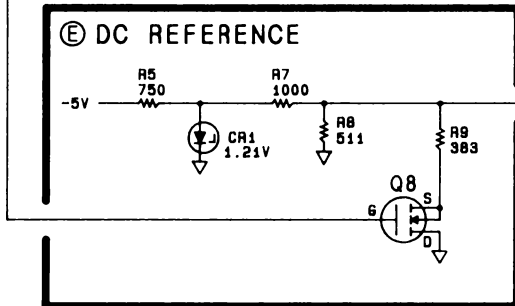
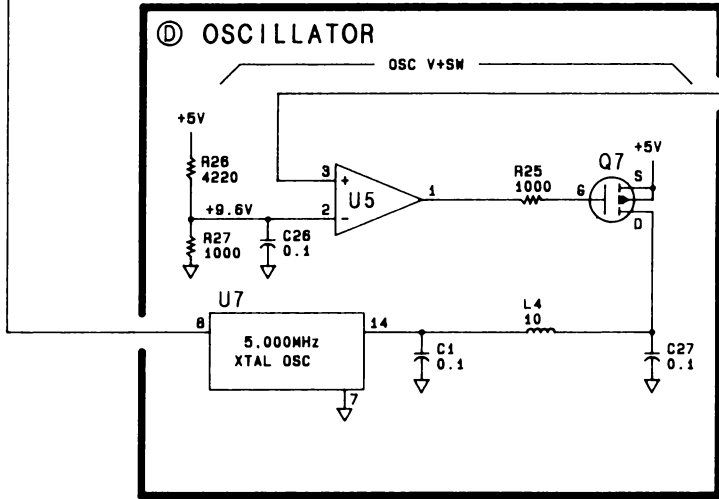
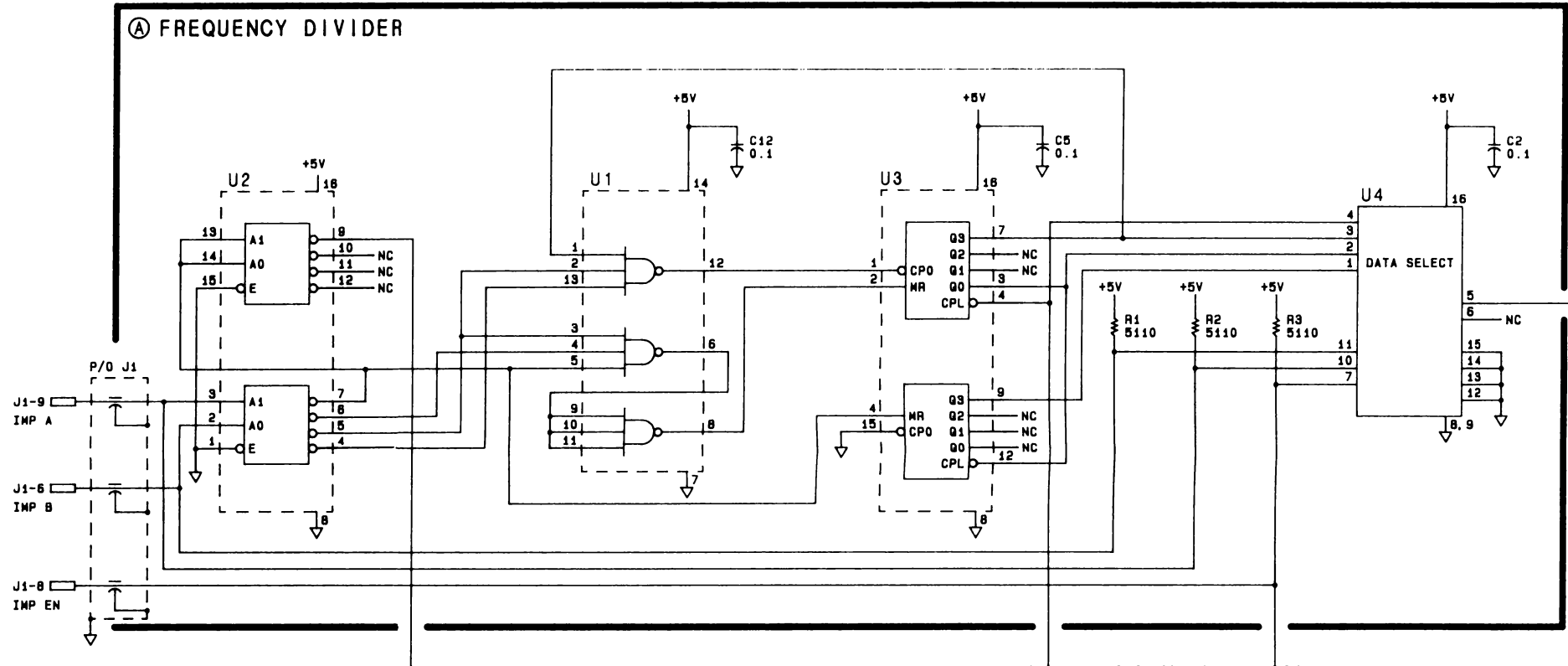
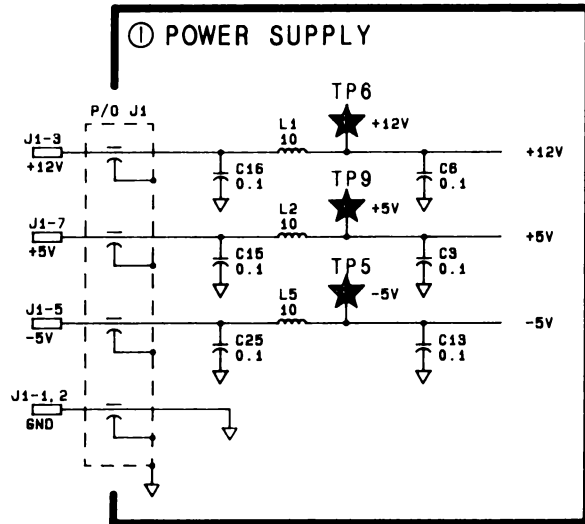
HP Part Number 85685-60120
Comb Generator Assembly

| Reference Designation | HP Part Number | C D | Qty | Description | Mfr Code | Mfr Part Number |
|-----------------------|----------------|-----|-----|--|----------|-----------------|
| Q5 | 1853-0583 | 4 | 1 | TRANSISTOR PNP SI T0-39 PD=800MW FT=2GHZ | S0545 | NE90115 |
| Q6 | 1853-0583 | 4 | 1 | TRANSISTOR PNP SI T0-39 PD=800MW FT=2GHZ | S0545 | NE90115 |
| Q7 | 1855-0567 | 8 | 1 | TRANSISTOR MOSFET P-CHAN E-MODE SI | 9M011 | IRFD9123 |
| Q8 | 1855-0520 | 3 | 1 | TRANSISTOR MOSFET N-CHAN E-MODE SI | 9M011 | IRFD113 |
| R1 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R2 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R3 | 0757-0438 | 3 | 1 | RESISTOR 5.11K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R4 | 0698-3441 | 8 | 1 | RESISTOR 215 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R5 | 0757-0420 | 3 | 1 | RESISTOR 750 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R7 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R8 | 0757-0416 | 7 | 1 | RESISTOR 511 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R9 | 0698-3446 | 3 | 1 | RESISTOR 383 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R10 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R11 | 0757-0401 | 0 | 1 | RESISTOR 100 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R12 | 0698-3444 | 1 | 1 | RESISTOR 316 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R13 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R14 | 0757-0465 | 6 | 1 | RESISTOR 100K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R15 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R16 | 0757-1000 | 7 | 1 | RESISTOR 51.1 1% .5W TF TC=0+-100 | 19701 | 5053R |
| R17 | 0757-0416 | 7 | 1 | RESISTOR 511 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R18 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R19 | 0699-1361 | 9 | 1 | RESISTOR 51.1 1% .125W TKF TC=0+-100 | 91637 | CRCW1206F |
| R20 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R21 | 0757-0416 | 7 | 1 | RESISTOR 511 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R22 | 0757-0986 | 6 | 1 | RESISTOR 12.1 1% .5W TF TC=0+-100 | 91637 | CMF-65-2 |
| R23 | 2100-3288 | 8 | 1 | RESISTOR-TRMR 50 20% TKF TOP-ADJ 17-TRN | 73138 | 67WR |
| R25 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R26 | 0698-3154 | 0 | 1 | RESISTOR 4.22K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R27 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| R28 | 0757-0280 | 3 | 1 | RESISTOR 1K 1% .125W TF TC=0+-100 | 19701 | SFR25H |
| U1 | 1820-2923 | 1 | 1 | IC GATE CMOS/74HC NAND TPL 3-INP | 04713 | MC74HC10N |
| U2 | 1820-3014 | 3 | 1 | IC DCDR CMOS/74HC 2-T0-4-LINE DUAL | 27014 | MM74HC139N |
| U3 | 1820-3207 | 6 | 1 | IC CNTR CMOS/74HC BI-QUINARY ASYNCHRO NE | 27014 | MM74HC390N |
| U4 | 1820-3176 | 8 | 1 | IC MUXR/DATA-SEL CMOS/74HC 8-T0-1-LINE | 27014 | MM74HC151N |
| U5 | 1826-1222 | 3 | 1 | IC OP AMP H-SLEW-RATE QUAD 14-DIP-C PKG | 04713 | MC34074AL |
| U7 | 1813-0443 | 1 | 1 | CLOCK-OSCILLATOR-XTAL 5.0000-MHZ 0.0025% | 00815 | HS-309-5.00MHZ |
| U8 | 0955-0228 | 9 | 1 | U-WAVE ATTENUATOR 2.2 GHZ MAX | 23338 | MA8-3BL |



COMB GENERATOR BOARD ASSEMBLY, COMPONENT LOCATIONS: 85685-60120

| J1 | PIN | SIGNAL | TO/FROM | FUNCTION |
|----|-----|--------|----------|----------|
| | 1 | GND | | |
| | 2 | GND | | |
| | 3 | +12V | | |
| | 4 | NC | | |
| | 5 | -5V | | |
| | 6 | IMP B | A12J3-47 | A |
| | 7 | +5V | | |
| | 8 | IMP EN | A12J3-50 | A |
| | 9 | IMP A | A12J3-49 | A |
| | 10 | NC | | |



- NOTES:
1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. FOR COMPLETE REFERENCE DESIGNATION, PREFIX ABBREVIATION WITH ASSEMBLY DESIGNATION.
 2. UNLESS OTHERWISE INDICATED: RESISTANCE IS IN OHMS (Ω); CAPACITANCE IS IN MICROFARADS (μF); INDUCTANCE IS IN MICROHENRIES (μH).
 3. UNLESS OTHERWISE INDICATED: SIGNALS ENTER AT LEFT SIDE AND EXIT AT RIGHT SIDE OF FUNCTION BLOCKS.
 4. * INDICATES PART OF PC BOARD.

Document Curator

Matt Huszagh
huszaghmatt@gmail.com